

**INSTALLATION RESTORATION  
PROGRAM (IRP)**

**PHASE II STAGE 2 INVESTIGATION**

**VOLUME III  
APPENDICES G-J**

**127th FIGHTER WING  
MICHIGAN AIR NATIONAL GUARD  
SELFREDGE AIR NATIONAL GUARD BASE  
MT. CLEMENS, MICHIGAN**

**DECEMBER 1996**



**19970303 014**

*Prepared For*  
**ANGRC/CEVR  
ANDREWS AFB, MARYLAND**

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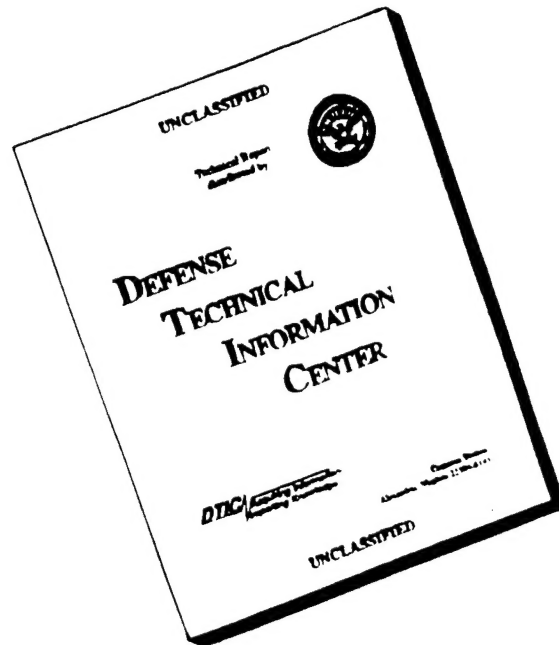
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**DECEMBER 1996**

*Prepared For*

**ANGRC/CEVR  
ANDREWS AFB, MARYLAND**

*Prepared By*

**Operational Technologies Corporation  
4100 N.W. Loop 410, Suite 230  
San Antonio, Texas 78229-4253  
(210) 731-0000**

# **INSTALLATION RESTORATION PROGRAM (IRP)**

## **PHASE II STAGE 2 INVESTIGATION**

### **VOLUME III APPENDICES G-J**

**127th FIGHTER WING  
MICHIGAN AIR NATIONAL GUARD  
SELFREDGE AIR NATIONAL GUARD BASE  
MT. CLEMENS, MICHIGAN**

**DECEMBER 1996**

#### **Operational Technologies Corporation Prepared**

- Executive Summary
- Summary and Conclusions

#### **Roy F. Weston, Inc. Prepared**

- Introduction
- Results and Significance of Findings
- Field Investigation Program
- Environmental Setting
- Preliminary Feasibility Study
- Appendices A through Q



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## APPENDIX G

### SOIL BORING AND WELL COMPLETION LOGS



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-422 OWNER: SELFRIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS.  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.69 WATER LEVEL: 11.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-8-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: HMB & WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				GRAVEL (fill) 0.5	
5	B001	CS 01	100%	Green-gray Clayey SILT to Clayey SAND, massive, "very moist", "stiff to medium dense", "low plasticity", lacustrine or fill (ml. sc).	100-700
				5.0	
	B002	CS 02	100%	Light brown to gray green Silty CLAY, laminated, "moist", "low to med. plasticity", lacustrine (cl).	100-400
				7.0	100-300
				Gray-brown SILT, laminated, "moist", "low plasticity", lacustrine (ml).	
				8.0	NK
10				Gray-brown Silty CLAY, laminated, "moist", "low to med. plasticity", lacustrine (cl).	100
				10.0	
		CS 03	100%	Gray-green to brown-green Silty CLAY, massive, "moist to very moist", "medium to high plasticity", lacustrine (cl).	200
				11.0	2-6
15		CS 04	100%		10-40
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-422 OWNER: SELFRIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS.  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.69 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-8-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: HMB & WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
	CS 05		100%		50-150
25				25.0	
	CS 06		60%	Gray Silty CLAY, trace sand, massive, "moist", "soft to very soft", "medium to high plasticity", lacustrine (cl).	2-4
30				E.O.B. at 30 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 02-423 OWNER: SELFRIEDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.92 WATER LEVEL: 5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-8-88  
 DRILLER: DAVE CRUISE HELPER: JIM WELL COMPLETED: NA  
 LOG BY: HMR/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001	CS 01	60%	Black, grading to greenish gray, CLAYEY SILT and SILT w/mottles, blocky to massive with faint laminations, "moist", (CL, ml- possibly fill in top several feet).	100-500
5				5.0	
		CS 02	100%	Brown to medium gray SILTY CLAY with mottles and gray laminations, "moist", "plastic to slightly sticky", lacustrine (cl).	10-40
10				8.0	
	B002	CS 03		Medium brown to gray SILT with gray laminations, "moist", "plastic, becoming firm with depth", lacustrine (ml).	10
15				11.0	100
		CS 04		Medium gray SILTY CLAY, massive, "wet", "very plastic to fat", lacustrine (cl).	NI
20				20.0	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-423 OWNER: SELFRIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.92 WATER LEVEL: 5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-8-88  
 DRILLER: DAVE CRUISE HELPER: JIM WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003	CS 05	100%	Gray Silty CLAY, trace sand, massive, "wet", "soft", "medium to very plastic", lacustrine (cl).	NK
25		CS 06	100%		
30				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-424 OWNER: SELFLEDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.80 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-9-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				GRAVEL (f111) 0.5	
				Brown to gray Clayey SILT (f111) 2.0	10
	B001	CS 01	64%	Gray Silty CLAY w/ brown mottles, massive, "moist", "medium stiff", "low plasticity", lacustrine (cl).	40
5		CS 02	100 %		10
				Gray Silty CLAY w/minor brown mottles, some sand, "moist", "medium stiff", "low plasticity", lacustrine (cl). 10.0	2
10				Gray Silty CLAY, massive, "moist" from 10 to 11 FT, "wet" below 11 FT, "soft", "medium to high plasticity", lacustrine (cl). 11.0	4
	B002	CS 03	100 %		10
15		CS 04	100 %		2-4
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 02-424 OWNER: SELFRIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.80 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-9-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
	CS 05	100 %			1-5
				23.5	
				Gray Silty CLAY, trace sand, massive, "wet", "soft" "medium to high plasticity", lacustrine (cl).	
25				26.0	
	CS 06	100 %		Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	1-4
30				E.O.B. at 30 FT	



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-418 OWNER: SELFRIEDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 1 (FTA-1) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 580.24 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-7-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01	100%	GRAVEL, 1-inch diameter (fill). 0.5	
				Brown Silty SAND (fill). 1.0	NK
	B001 B101	CS 02	38%	Black SILT and GRAVEL with miscellaneous fill material, including glass (fill). 3.0	1-10
5				Brown Silty CLAY with gray mottles, laminated "moist", "firm to stiff", lacustrine (cl). 12.0	NK
		CS 03	100%		1-3
10					
		CS 04	100%		
				Gray Silty CLAY with very minor brown mottles, massive, "wet", "medium plasticity and sticky", lacustrine (cl). 15.0	0
15					
	B002	CS 05	100%	Gray Silty CLAY, trace sand and silt lenses, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (cl). (cont.)	0-1
20					

## DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-418 OWNER: SELFRIDGE ANGB  
LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 1 (FTA-1) MICHIGAN  
CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
SURFACE ELEVATION: 580.24 WATER LEVEL: 12 FT  
DRILLING DRILLING BORING  
COMPANY : ETI METHOD: 4.25 HSA COMPLETED: 1-7-88  
DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					
		CS 06	100%	As above	o
25	B003	CS 07	100%		o
30				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-419 OWNER: SELFRIIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 1 (FTA-1) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 580.31 WATER LEVEL: 13 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 MSA BORING COMPLETED: 1-7-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Light brown GRAVEL road aggregate (fill). 1.5	10-20
	B001 B001 MS	CS 01	78%	Brown, fine SAND with iron staining "moist", black-staining at 2.0 FT (fill). 3.5	10-100
5				Green-gray to brown. Silty CLAY with gray and brown mottles, laminated, "moist", "stiff", "low plasticity" lacustrine (cl).	10-20
	B002	CS 02	84%		10-20
10					10-20
		CS 03	100%	▽ 13.0	Q
15				15.0	5-10
		CS 04	96%	Gray Silty CLAY interbedded with 1 to 2 inch sandy silt layers, "wet", "soft", "high plasticity", lacustrine (cl).	10
20				(Cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-419 OWNER: SELFRIDGE ANGE  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 1 (FTA-1) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 580.31 WATER LEVEL: 13 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-7-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	CVA (units)
		CS 05	100%	As above	10
					40
	B003		100%	28.0	2-3
				Light gray Sandy CLAY with some gravel. massive, "wet", "medium to high plasticity". lacustrine-reworked till (sc). 30.0	20-30
				E.O.B. at 30 FT	

ROY F. WESTON, INC.

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Red-brown GRAVEL road aggregate (fill) .	NK
	B001	SS 01	75%	Black SILT, organic, with black laminations "moist". (fill) .	0
				1.5	
				2.7	
				Green-gray to brown Silty CLAY with brown mottles, petroleum odor from 2.7 to 3.0 FT and oily film from 6.0 to 7.5 FT, laminated, "moist", "medium stiff to stiff",	10-12
	B002	CS 02	90%		NK
					10-12
					1-5
					NK
					3
		CS 03	100%	Gray Silty CLAY, massive, "wet", "medium to high plasticity". lacustrine (cl) .	12
				11.5	
					10
		CS 04	80%	Gray Silty CLAY, trace sand and silt lenses, massive, "wet", "soft", "medium to high plasticity". lacustrine-reworked till (cl) .	30
				17.0	
20				(Cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 03-420 OWNER: SELFRIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 1 (FTA-1) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 580.26 WATER LEVEL: 11.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-7/8-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003	CS 05	96%	As above	8-12
25					
		CS 06	100%		10-25
30				E.O.B. at 30 FT	



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-406 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 29.5 FT  
 SURFACE ELEVATION: 579.05 WATER LEVEL: 9.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Black Clayey SILT, roots (fill with topsoil development). 0.5	
	B001	CS 01	100%	Olive gray Silty CLAY with orange mottles, massive, "moist", "firm", (fill).	0
5				5.0	
	B002	CS 02	100%	Olive gray Silty CLAY with orange motles, laminated, "moist", "medium stiff", "low plasticity", lacustrine (cl).	0
10				9.5	
		CS 03	100%	Gray Silty CLAY with gray mottles, massive, "moist", "soft", "medium to high plasticity", lacustrine (cl).	1
15					3
		CS 04	100%		1-4
20				20.0	1

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-406 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 29.5 FT  
 SURFACE ELEVATION: 579.05 WATER LEVEL: 9.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	QVA (units)
20	B003	CS 05	60%	Gray Clayey SAND to Clayey SILT, trace gravel, massive, "moist to wet", "soft", organic lacustrine-reworked till (sc, ml).	1000
25		CS 06	100%		100 - 400
		SS 07	40 64 110 30	Light gray Silty SAND, some clay and gravel, massive, "dry", and crumbly, very dense, till (sm).	20-40
		SS 08	45 58 108 100%		2-20
30				E.O.B. at 29.5 FT	

\* Samples SS-07 and SS-08 were collected using the Standard Penetration Test (ASTM D-1586) Method. The values given are blow counts.

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-407 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 580.23 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-20-87  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CKW/WLN CHECKED BY: RLM SHEET 1 OF 2

KEVIN McCUMBER

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Brown to black Silty CLAY, trace gravel, "stiff", (fill w/ topsoil development). 0.5	
	SS 01		2 4 8 7	Brown Clayey SILT to Clayey SAND, massive, "dry", stiff to very stiff (fill). 4.0	0
	SS 02		7 8 10 13		0
5	B001	SS 03	7 7 10 10	Light gray to very dark gray Silty CLAY with brown to black streaks, "dry", very stiff, "low plasticity", lacustrine (cl). 7.0	0.0-0.2
		SS 04	2 4 5 10	Brown Silty CLAY, some sand, laminated, and mottled, "dry", "v. stiff", lacust. (cl). 7.5	0.0-0.5
		SS 05	2 4 8 8	Gray and brown Silty CLAY, trace gravel, laminated, "moist", stiff to very stiff, "low plast.", lacustrine-reworked till (cl). 12.0	0
10		SS 06	2 3 4 5		0
		SS 07	0 1 1 1		0
15		SS 08	0 0 0 0	Gray Silty CLAY, trace gravel, massive, "wet", soft to very soft, "medium to high plasticity", lacustrine-reworked till (cl). (cont.)	2-7
		SS 09	0 0 0 0		2-7
20		SS 10	0 0 0 0		2-7

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-407 OWNER: SELFRIEDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS.  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 580.23 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-20-87  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CKW/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B002	SS 11	0 0 0 0	As above	4-8
				22.0	
		SS 12	0 0 0 0	Gray Silty CLAY, some sand, trace gravel, massive, "wet", very soft, "medium to high plasticity", lacustrine-reworked till (cl).	4-20
25	B003	SS 13	0 0 0 0		4-10
		SS 14	0 0 0 5		8-20
		SS 15	20 35 76 82	Gray Silty SAND, trace gravel, massive, "dry", very dense, "low plasticity", till (sm).	2-4
30				E.O.B. at 30 FT	
35					

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-408 OWNER: SELFRIIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.02 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Gray to black SILT. organic, roots, "moist", (topsoil in fill) 0.5	
	B001 B101	CS 01	100%	Olive gray Silty CLAY with iron-stain mottles, black staining from 3.5 to 4.5 FT, "moist", "medium stiff", "low to medium plasticity", lacustrine, with top several feet probably fill material (fill, cl).	0
5		CS 02	100%		0
10				10.0	
	B002	CS 03	100%	Dark olive gray Silty CLAY with gray mottles, massive, "wet", "soft", "medium to high plasticity", lacustrine (cl).	0.0 - 0.5
15		CS 04	100%		1-2
20				20.0	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-408 OWNER: SELFRIEDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.02 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	Dark olive gray Silty CLAY with gray mottles. OVA reading in borehole = 1000+ ppm. massive "wet", "soft", "medium to high plasticity", organic lacustrine (cl).	0
25				25.0	
	B003	CS 06	42%	Light gray Silty SAND, some gravel, massive, "moist", "medium dense", till (sm).	NK
30				E.O.B. at 30 FT	
35					
40					



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-409 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.40 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-22-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Black SILT, organic, with iron-stained horizons, roots, "moist" (topsoil in fill).	0
5		CS 01	24%	Olive gray Silty CLAY with iron-stain mottles, some lamination, "moist", "m. stiff", "low plasticity", lacustrine, with top several feet probably fill (fill, cl).	NK
10	B001	CS 02	100%		0
15		CS 03	100%	11.0 11.0 Light gray Silty CLAY with gray mottles, massive, "moist to wet", "medium to high plasticity", lacustrine (cl).	0
20	B00S B002 MS	CS 04	100%	(cont.)	3-4

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-409 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.40 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-21/22-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
	CS 05		94%	23.0	50-70
				Gray Clayey SAND with some gray mottling, massive, "wet", "soft", "low to med. plast.", organic lacustrine-reworked till (sc).	
25				25.0	
	CS 06		44%	Light olive gray Silty SAND, "moist to wet", "medium dense", till (sm).	800
	8003			30.0	1000
30				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-410 OWNER: SELFRIDGE ANGR  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 578.55 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-21-87  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CWK/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					
	SS 01	4 7 7 10		Gray-brown Silty CLAY, organic, with iron-staining, stiff (topsoil in fill). 2.0	0
	SS 02	2 4 5 7		Brown Clayey SILT, trace gravel and sand, some black organic wood chunks and coal chunks, massive "moist", stiff (fill). 4.5	0
5	SS 03	2 4 6 7		Brown to gray Silty CLAY with gray mottling, laminated, "moist", stiff, "low plasticity", lacustrine (cl). 8.0	0
	B001 SS 04	2 5 8 7			0
	SS 05	0 0 1 2		Gray Silty CLAY, no mottling, trace gravel and sand, massive, "wet", very soft, "medium to high plasticity" lacustrine-reworked till (cl). 8.0	0
10	SS 06	0 0 0 1			0
	SS 07	0 0 0 1			0
15	B002 B102 SS 08	0 0 0 0			0
	SS 09	0 0 0 0			0
	SS 10	0 0 0 0			0

(cont.)

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-410 OWNER: SELFRIEDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 578.55 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-21-87  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CWK/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		SS 11	0 0	As above	0.5 - 2.0
		SS 12	0 0		0.5 - 2.0
				24.0	
25	B003	SS 13	20 33 50 57	Light gray Sandy SILT, some clay and gravel, massive, hard, "dry", low plasticity, till (sm).	1-2
		SS 14	60 71 63 ?		1-2
		SS 15	40 100/ 5"		1-2
30				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-411 OWNER: SELFIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 582.04 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-22-87  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CWK/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					
	SS 01		2 6 6 10	Brown to black Silty CLAY, trace gravel, stiff (topsoil in fill). 1.0	0
	SS 02		6 6 10 12	Red-brown Clayey SILT with iron-staining, some sand, trace gravel, massive, very "low plasticity", stiff (fill). 5.0	0
5	SS 03		2 3 9 8		0
	SS 04		2 6 10 10	Brown to gray Silty CLAY with gray mottling, laminated, "moist", very stiff, "low plasticity, lacustrine (cl). 9.0	0
	B001 B001 MS	SS 05	2 8 2 3		0
10		SS 06	0 0 0 2	Gray Silty CLAY, no mottling, massive, "wet", very soft, "medium to high plasticity", lacustrine (cl). 9.0	0
		SS 07	0 0 0 0		0
15		SS 08	0 0 0 1		0.0 - 0.5
		SS 09	0 0 0 0		0.0 - 0.5
		SS 10	0 0 0 0		0
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-411 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS.  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 582.04 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-22-87  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CWK/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		SS 11	0 0 0 1	As above 21.0	0.0 - 2.0
	B002	SS 12	0 0 0 0	Gray Clayey SAND, some silt, massive "wet", very loose, "medium to high plast.", lacustrine-reworked till (sc).	0.0 - 2.0
25		SS 13	0 0 0 0		2-4
		SS 14	0 0 0 0		2-4
	B003	SS 15	63 100/ 6"	Light gray Sandy SILT, some clay, massive, "dry to moist", very dense, till (sm). 30.0	600 - 800
30				E.O.B. at 30 FT	
35					
40					

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-412 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.88 WATER LEVEL: 6.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-22-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Black SILT, organic, roots, "moist", (topsoil in fill). 0.5	
5		CS 01	90%	Olive green-gray Clayey SILT with iron-stain mottles, "moist", "medium stiff", lacustrine, with top several feet probably fill (fill, cl).	NK
6.5	B001	CS 02	100%	Light gray Silty CLAY with gray mottles, massive, "wet", "soft", "medium to high plasticity", lacustrine (cl). 6.5	NK
10		CS 03	100%		NK
15	B002	CS 04	100%	Light gray Silty CLAY, some sand layers, "wet", "soft", "medium to high plasticity", lacustrine (cl). 15.0	NK
20				20.0	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-412 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.88 WATER LEVEL: 6.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-22-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	Light gray Clayey SAND with gray mottles, changing to orange mottles toward base, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc).	NK
25				25.0	
	B003	CS 06	70%	Light gray Clayey GRAVEL, some sand and silt, brown liquid film on sample surface, "wet", "loose", till (gc).	NK
30				E.O.B. at 30 FT	



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-413 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 576.52 WATER LEVEL: 3 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-4/5-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: HSR/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Medium gray Silty CLAY with orange-brown mottles, laminated, "stiff", "low plasticity", lacustrine (cl). 1.5	0.0 - 0.5
	B001	CS 01	60%		0
5				$\nabla$ 3.0	NK
		CS 02	100%	Gray Silty CLAY, no mottles, massive, "moist to wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 20.0	0.5 - 1.0
10					0
	B002	CS 03	100%		8
15					5-10
		CS 04	100%		20-30
20					

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-413 OWNER: SELFRIIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 576.52 WATER LEVEL: 3 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: HSR/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	100%	Gray Silty CLAY, OVA reading down borehole = 1000+, massive, "wet", "very soft", "medium to high plasticity", organic lacustrine (cl).	0
				24.0	
25	B003 B103	CS 06	60%	Gray CLAYEY SAND, some silt, massive, "wet", "very loose to loose", "medium to high plasticity", lacustrine-reworked till (sc).	2-5
				30.0	NK
30				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-414 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 28.5 FT  
 SURFACE ELEVATION: 575.80 WATER LEVEL: 4.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: HMR & WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Olive gray Clayey SILT with orange mottling, some sand, massive, "moist", "stiff", "medium plasticity", (fill). 1.0	
	B001	SS 01	4 5 6 8	Olive gray Silty CLAY, some sand laminae, "moist", stiff, "medium plasticity", lacustrine (cl).	NK
	B002			4.0	5
5		CS 02	100%	Gray, Silty CLAY with orange mottling, massive, "moist", "soft", "medium to high plasticity", lacustrine (cl). 4.0	0
10		CS 03	80%		1-2
15	B003	CS 04	90%		0-10
		CS 05	96%	Gray Silty CLAY, no mottling, massive, "moist", "soft", "medium to high plasticity", lacustrine (cl). 18.0 (cont.)	1-2
20					

\* Sample SS-01 was collected using the Standard Penetration Test (ASTM D-1586). Values given are blow counts.

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-414 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 28.5 FT  
 SURFACE ELEVATION: 575.80 WATER LEVEL: 4.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: HMR & WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
				21.5	
				Gray Clayey SAND, some silt, massive, "wet", "loose", "medium to high plasticity", lacustrine-reworked till (sc).	3-5
25					6-10
	B004	CS 06	100%		2-3
				28.0	
		CS 07	100%	Light gray Sandy SILT, some clay and gravel, massive, "dry", very hard, "low plasticity", till (sm).	2-3
30				E.O.B. at 28.5 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-415 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 576.53 WATER LEVEL: 5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					
		CS 01	60%	Gray Silty CLAY with iron-stain mottles, massive, "moist", "stiff", "low plast." (fill).	0
5					
	B001 B001 MS	CS 02	100%	Gray Silty CLAY with gray mottling, massive, "wet", "very soft", "medium to high plasticity". lacustrine (cl).	1
10					
		CS 03	90%		1
15					
	B002	CS 04	90%		0
20					2-3

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 04-415 OWNER: SELFIDGE ANGB  
 LOCATION: WEST RAMP (WRMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 576.53 WATER LEVEL: 5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-5-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	50%	Gray Silty CLAY, no mottling. OVA reading down borehole = 1000 +units, massive, "wet", "very soft", "medium to high plasticity", organic lacustrine (cl). 21.5	
25				Gray Silty SAND, trace to some gravel, massive, "moist", becoming "dry" at 25 FT "dense", till (sm).	10-100
	B003	CS 06	40%		10-28
30				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-401 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 573.81 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-17-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Gray to brown Silty CLAY with iron-stain mottling, trace gravel, black organic silt with roots near top, "moist", "medium stiff to stiff", "low to medium plasticity", (fill with topsoil development near top). 2.0	
	B001	CS 01	100%	Black SILT, organic, "moist", "medium stiff to stiff", "low to medium plasticity", topsoil (b1). 3.0	0
5				Brown Silty CLAY with black organic streaks and some iron-stain mottling, "moist", "stiff", "medium plasticity", lacustrine (cl). 5.0	
	B002	CS 02	100%	Gray Silty CLAY, trace gravel near base, massive, "moist" 5-8 FT, "wet" below 8 FT, "soft", "medium to high plasticity", lacustrine (cl). ▽ 8.0	NK
10		CS 03	100%		NK
15		CS 04	100%		NK
	SS 05	18 22 25 23		Gray Sandy CLAY, some gravel, massive, "wet", hard, "medium plasticity", lacustrine-reworked till (sc). 16.0	NK
	SS 06	17 23		Gray Sandy SILT, some gravel, generally massive, "moist", hard, "low plasticity", till (sm). 19.0 (cont.)	NK
20					

\* Sample SS-05 and SS-06 were obtained using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-401 OWNER: SELFRIIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 573.81 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-17-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	SS 06		73 50	As above	NK
	SS 07		17 18 25 22		NK
	SS 08		28 36 39 43		NK
25	B003 SS 09		3 9 12 18		NK
	SS 10		22 37 52		2-250
	SS 11		29 35 29		200
30				EOB AT 30 FT	



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-402 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 574.22 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-18-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Yellow-brown Silty CLAY, some gravel, massive, "stiff", "low to medium plasticity", (fill).	
	B001	CS 01	100%	Black SILT, organic, massive, "moist", medium stiff, low plasticity, buried topsoil (cl).	0
				2.0	
				2.7	
				Green-gray Silty CLAY with brown iron-stain mottling, "moist", "medium stiff", "medium to high plasticity", lacustrine (cl).	
	B002	CS 02	100%		0
				8.0	
10				Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	10
				15.0	20
15				Gray Sandy CLAY, generally massive with some layering of sand, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc).	20-40
	B003	CS 04	100%		
20				20.0	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-402 OWNER: SELFIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 574.22 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-18-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		100%	Gray Sandy SILT, some to trace gravel, generally massive with some layering of sand near base, "moist", "hard", "low to medium plasticity", till (sm).	7-8
25	SS 06	32 17 15	25		20
	SS 07	22 37	25 43		2-5
	SS 08	53	76		2-9
30				E.O.B. at 30 FT	0.5 - 2.0

\* Samples SS-06 through SS-08 were collected using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-403 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 574.51 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 PSA BORING COMPLETED: 12-18-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0	B001 B101	CS 01	100%	Black SILT, organic, massive, "moist", "medium stiff to stiff", "low to medium plasticity". (topsoil in fill). 3.0 GRAVEL (fill). 3.5 Brown Silty CLAY with brown iron-stain mottling. "moist", "stiff", "medium plasticity (fill)". 5.0 Black SILT, organic, roots, massive, "moist", "medium stiff to stiff", "low to medium plasticity", buried topsoil (ol). 6.0 Light brown Silty CLAY with brown iron-stain mottling, laminated, "moist", "stiff", "medium plasticity, lacustrine (cl). 11.0 ▽ 11.0	0
5		CS 02	100%		0.0-3.0
10		CS 03	100%	Olive gray Silty CLAY with greenish mottling below 15 FT, trace gravel near base, massive, "moist to very moist", "soft", "medium to high plasticity", lacustrine (cl). 11.0	1-6
15		CS 04	100%		9-20
20	B002				8
					45

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-403 OWNER: SELFRIIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 574.51 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-18-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003			As above	
		CS 05	100%	21.3  Green-gray Sandy SILT, trace to some gravel, massive, "moist", "stiff to very stiff", "low plasticity", till (sm).	20-50
25		CS 06	100%		90-550
30				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-404 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.16 WATER LEVEL: 10.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-19-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Gray Silty CLAY with brown iron-stain mottling. massive. "moist", "stiff", "low to medium plasticity" (fill). 1.7	
		CS 01	50%	Black organic SILT with some coal pieces near base. roots. massive. "moist", "medium stiff", "low plasticity", buried topsoil (0). 2.7	0
5				Green-gray Silty CLAY with brown and gray mottling. massive. "moist" to 10.5 FT. "wet" below 10.5 FT. "medium stiff" to "soft", "medium to high plasticity", lacustrine (cl).	
	B001	CS 02	100%		0
10					
	B002	CS 03	100%		0.5
15					
		CS 04	100%		5-9
20				Gray Sandy CLAY with thin sand horizons. 18.0 "moist to wet", "soft" "medium to high plasticity", lacustrine (sc). (cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-404 OWNER: SELFRIEDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.16 WATER LEVEL: 10.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-19-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	CS 05		100%	As above	20.5
	SS 06	11 14 18 21		Gray Sandy SILT, some gravel, massive, "moist", hard, "low plasticity", till (sm).	2-5
	SS 07	17 92 50 41			40
25	SS 08	100 87 19 21			2-5
	SS 09	20 30 25			50
	SS 10	41 73			2-10
30				E.O.B. at 30 FT	30-50
					20-60

\* Samples SS-05 through SS-10 were collected using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-405 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.36 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-19-87  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Green-gray Silty CLAY with black gray mottles, massive, "moist", "medium stiff to stiff", "low to medium plasticity", (fill).	
	CS 01		100%	3.0	0.0 -
				Black SILT, organic, massive, "moist", "medium stiff", "low Plasticity", (topsoil) (O1).	5.0
				4.0	
5				Green-gray Silty CLAY with brown iron-stain mottles, massive, "moist", "medium stiff", "medium plasticity", lacustrine (cl).	
	CS 02		100%		0.5
				9.0	
10	B001			9.0	
				Green-gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	
	CS 03		100%		0.5 -
					5.0
15					
	CS 04		100%		0.5 -
					5.0
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-405 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS.  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.36 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 12-19-87  
 DRILLER: DAVE CRUISE HELPER: JIM ROERST WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
		CS 05	100%		2-8
	B002			Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc). 23.0	
25	B003 B103	SS 06	24 36 49 51	Gray Sandy SILT, trace to some gravel, massive, "moist", hard, "low plasticity", till (sm). 24.0	10-30
		SS 07	32 38 60 77		30-40
		SS 08	28 38		NK
30				E.O.B. at 29 FT	

\* Samples SS-06, SS-07, and SS-08 were collected using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-416 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS.  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 571.83 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-6-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN & JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Brown to black Clayey SILT, "moist", "medium stiff", "low plasticity", (topsoil in fill). 1.5	
	CS 01		72%	Brown and light gray Silty CLAY with orange-brown mottling, "moist", "stiff to soft", "medium to high plasticity", lacustrine (cl). 3-5	0
5	B001				
	CS 02		100%		
10				7.0 Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 5-15	
	CS 03		100%		
15					
	B002 B102	CS 04	100%		1-3
					3-6
20				19.0 Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine reworked till (sc). (cont.) 1-3	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-416 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 571.83 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-6-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN & JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	7-12
	CS 05		76%		50-200
25					NK
	B003	CS 06	20%	Gray Silty SAND, some gravel, massive, "moist to dry", "dense to very dense", till (sm).	10-100
30				E.O.B. at 30 FT	NK

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-417 OWNER: SELFIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 25 FT  
 SURFACE ELEVATION: 572.70 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-6-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: HMR/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					
	SS 01	-		Olive gray Silty CLAY, organic, with brown mottling, frozen in top 4", "moist" below 4", "stiff to very stiff", "low plasticity", (topsoil in fill). 1.5	0
	SS 02	-		Olive gray to light gray Silty CLAY with brown mottling, massive, "moist", "medium stiff", "medium plasticity", (fill).	0
5	CS 03	100%		Black organic SILT with roots, buried topsoil (cl) 5.0	NK
	SS 04	-		Medium gray Silty CLAY, laminated, "moist to very moist", "medium stiff to stiff", "medium plasticity", lacustrine (cl). 8.0	NK
10	B001 SS 05	-		Medium gray SILTY CLAY, massive, "moist" above 12 FT, "wet" below 12 FT, "soft to very soft", "high plasticity", lacustrine (cl).	0
	CS 06	20%		▽ 12.0	NK
15	B002 B002 MS	CS 07	100%		4-6
20	CS 08	100%		(cont.)	40-50

\* Samples SS-01 through SS-05 were collected using the Standard Penetration Test (ASTM D-1586). Blow counts were not recorded.

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-417 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 25 FT  
 SURFACE ELEVATION: 572.70 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-6-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: HMR/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	40-50
				23.5	
25	B003	CS 09	100%	Gray Clayey SAND, massive, "wet", "soft", "medium to high plasticity", lacustrine reworked till (sc).	10-100
				E.O.B. at 25 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-421 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS.  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 573.17 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-8-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Black SILT, organic, roots, "moist", "medium stiff", "low plasticity", (topsoil in fill).	
	B001	CS 01	82X	1.4	
5				Green-gray Silty CLAY with brown iron-stain mottles, massive, "moist", "stiff", "low to medium plasticity", lacustrine, with top several feet probably fill (fill, cl).	0
		CS 02	100X		0
10				9.0	
	B002	CS 03	100X	Gray Silty CLAY, some gray and black mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine, (cl).	1
15					
		CS 04	100X		1-2
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 05-421 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 573.17 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-8-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
		CS 05	100%		2-8
25				25.0	
		CS 06	82%	Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine reworked till (sc).	1-2
				26.6	
				Gray Clayey SAND to SILTY SAND, some gravel, generally massive with some crude sand layering, "wet", "loose", till (sc, sm).	10-40
30	B003				
				E.O.B. at 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-428 OWNER: SELFRIEDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS.  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 574.49 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-10-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Black SILT, organic (topsoil in fill) .	
		CS 01	0%	1.0	
				No recovery	NK
5				5.0	
	B001 B004	CS 02	100%	Brown Silty CLAY with brown iron-stain mottling. laminated. "moist". "stiff". "low plasticity". lacustrine (cl).	0
				9.0	
10				9.0	
	B002 B102	CS 03	100%	Gray Silty CLAY with some gray and brown mottling. massive. "wet". "soft to very soft". "medium to high plasticity". lacustrine (cl).	0
15					
		CS 04	88%		0
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-428 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 574.49 WATER LEVEL: 9 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-10-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
	CS 05		96%		0.0-0.5
25				25.0	
	CS 06		100%	Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0.0-0.5
30				E.O.B. AT 30 FT	



# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-429 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.36 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-10-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Black-dark brown Clayey SILT, organic. (topsoil in fill) . 1.0	
		CS 01	50%	Brown Clayey SILT with gray mottling. some fine sand, massive, "moist", "soft to medium stiff" (fill) . 2.5	0
5				Brown and gray Clayey SILT with brown iron-stain mottling, laminated, "moist", "stiff", "low plasticity", lacustrine (ml) .	
	B001	CS 02	100%		1-2
10				Gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl) . 10.0	
	B002	CS 03	100%		0
15					
		CS 04	100%		1-6
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 07-429 OWNER: SELFRIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 575.36 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-10-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20				As above	
		CS 05	100%		2-5
25				25.0	
	B003	CS 06	100%	Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0-3
30				E.O.B. AT 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-425 OWNER: SELFRIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.78 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-9-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CKW/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Bituminous coal pieces (fill). 0.5	
				Coarse GRAVEL (fill).	
		CS 01	20%		NK
5				4.5	
				Black Clayey SILT, organic, topsoil (ol).	1-2
				7.0	
	B001	CS 02	100%	Gray to brown Silty SAND, massive, "moist", "stiff", "low to medium plasticity", lacustrine (sm).	0
10					
				12.0	
	B002	CS 03	100%	Gray-brown Silty CLAY, no mottling, 12.0 massive, "wet", "soft to very soft", "med. to high plast.", lacustrine (cl).	0.5
15					
		CS 04	100%		0.0-0.5
20				(cont.)	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-425 OWNER: SELFRIIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.78 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-9-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: CKW/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20	B003	CS 05	100%	As above	0.0-0.5
25					
		CS 06	100%		0.0-0.5
30					
				E.O.B. AT 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-426 OWNER: SELFRIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.78 WATER LEVEL: 16 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-9-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Bituminous coal pieces (fill). 1.0	
		CS 01	0%	Coarse GRAVEL with red-brown iron-staining (fill). 5.0	NK
5				Green-black Clayey SILT, organic, with black and orange mottling, plant roots, massive, "moist", "medium stiff", "low plasticity", topsoil (of). 6.7	
	B001	CS 02	86%	Pale green SILT with orange mottling, massive, "moist", "stiff", "low plasticity", lacustrine (ml). 8.0	0-1
10				Gray to orange-brown Silty CLAY with orange mottling, laminated, "moist", "stiff", "low plasticity", lacustrine (cl).	
	B002	CS 03	100%		0
15					
		CS 04	98%	Brown and gray Silty CLAY with gray 16.0 mottling, massive, "wet", "soft to very soft", "med. to high plasticity", lacustrine (cl). (cont.)	0-1
20					

ROY F. WESTON, INC.

BORING NUMBER: 08-426 OWNER: SELFRIDGE ANGB  
LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
SURFACE ELEVATION: 579.78 WATER LEVEL: 16 FT  
DRILLING COMPANY: ETI DRILLING METHOD: 4.25 4SA BORING COMPLETED: 1-9-88  
DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: NA  
LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05	80%	As above	1-2
25	B003	CS 06	100%		0.5- 2.0
30				E.O.B. AT 30 FT	

# DRILLING LOG

ROY F. WESTON, INC.

BORING NUMBER: 08-427 OWNER: SELFRIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
 CASING ELEVATION: NA TOTAL DEPTH: 30 FT  
 SURFACE ELEVATION: 579.64 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-10-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: NA  
 LOG BY: WLN & CWK/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0				Bituminous coal pieces (fill).	
				2.0	
				Coarse GRAVEL (fill)	
				4.0	
5				Brown Silty SAND to SAND, massive, "moist", "loose to medium dense", lacustrine or fill (sm, sp).	
				7.5	
	B001	CS 02	50%	Brown Clayey SILT with brown iron-stain mottling, laminated, "moist", "medium stiff to stiff", "low plas- ticity, lacustrine (cl).	
10				10.0	
				11.5	
	B002	CS 03	100%	Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "med to high plasticity", lacustrine (cl).	
15					
	B003	CS 04	100%		
20				(cont.)	

ROY F. WESTON, INC.

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# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-156 OWNER: SELFRIDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 584.71 TOTAL DEPTH: 18.5 FT  
 SURFACE ELEVATION: 582.27 WATER LEVEL: 1.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-26-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-26-88  
 LOG BY: WLN/WLN CHECKED BY: HMR SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					▽ 1.0	
5		CS 01		20%	Brown Sandy SILT, grass roots in top 0.5 FT, massive, "wet", "soft", "low plasticity", alluvial with top several feet probably fill (sm).	0
10		CS 02		10%		10-12
15		CS 03		100%	Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	1-5
20		CS 04		46%		10-12
					E.O.B. at 18.5 Ft	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-257 OWNER: SELFRIEDGE ANGR  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS.  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 583.46 TOTAL DEPTH: 36 FT  
 SURFACE ELEVATION: 581.03 WATER LEVEL: 6 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 3-22-88  
 DRILLER: DAVE CRUISE HELPER: JON WELL COMPLETED: 3-22-88  
 LOG BY: JDO/WLN CHECKED BY: HMR/RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOKS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		SS 01	3	4	Black-gray Sandy SILT, plant roots, glass, "moist", very soft, "low plasticity", topsoil in fill (cl). 1.0	NK
		SS 02	2	2	Reddish brown to gray SAND with brown iron-staining, some silt, pieces of glass at 5 FT, massive, "wet" below 6 FT, loose, fill above 6 FT, alluvial or fill below 6 FT (fill, sp).	NK
5		SS 03	2	2		NK
	MOO1	SS 04	1	2		NK
		SS 05	6	5		0
10		SS 06	4	6	Gray Silty CLAY with brown and gray mottling, generally massive with some dark clay laminations near top, "wet", stiff near top, becoming soft to very soft towards base, "medium to high plasticity", lacustrine (cl).	0
		SS 07	2	2		0
15		SS 08	2	2		90
		SS 09	0	0		70-80
20		SS 10	1/12"	1/12"	(cont.)	50-60

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-257 OWNER: SELFRIDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 583.46 TOTAL DEPTH: 36 FT  
 SURFACE ELEVATION: 581.03 WATER LEVEL: 6 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 3-22-88  
 DRILLER: DAVE CRUISE HELPER: JON WELL COMPLETED: 3-22-88  
 LOG BY: JDO/WLN CHECKED BY: HMR/RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	SAMPLE BLOWS	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		SS 11	1/30" 1/6"		As above	90
		SS 12	1 2 2 1		24.0	50-80
25		SS 13	0 1 1		Gray Silty CLAY, some to trace sand, generally massive with thin sand layers, "wet", very soft, "medium to high plasticity", lacustrine (cl).	50-80
		SS 14	0 0 0			60-70
		SS 15	0 0 3			60-70
30		SS 16	0 0 1			40-60
		SS 17	0 0 0			50-70
35		SS 18	0 0 1			NK
					E.O.B. at 36 Ft	
40						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-158 OWNER: SELFRIDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 586.31 TOTAL DEPTH: 16 FT  
 SURFACE ELEVATION: 584.44 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-26-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-26-88  
 LOG BY: WLN/WLN CHECKED BY: HMR SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0		CS 01		50%	Brown SILTY SAND, some gravel, massive frozen, "stiff" (fill)	10-80
		CS 02		0%	Black organic CLAYEY SILT, greasy appearance, contains miscellaneous debris, including glass, wood, rubber, and rope, "wet" (landfill material).	NI
5		SS 03		17 68 <sup>26</sup>		10-12
		SS 04		11 8 <sup>7</sup>	Gray SILTY CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine (cl).	NI
10		CS 05		0%		NI
15		CS 06		100%	E.O.B. at 17 Ft	6-7
20						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-259 OWNER: SELFRIEDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 586.03 TOTAL DEPTH: 36 ft  
 SURFACE ELEVATION: 584.44 WATER LEVEL: 2.0 ft  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-3-88  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 2-3-88  
 LOG BY: WLN/WLN CHECKED BY: HMR/RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Brown Silty SAND, some gravel, plant roots in upper 3", massive, frozen "stiff" (fill). 1.5	
		CS 01		10%	2.0	1-5
5					Black organic Clayey SILT, greasy appearance, contains miscellaneous debris, including glass, wood, rubber, and rope, "wet", (landfill material).	
		CS 02		0%		NI
10					10.3	
		MOO1	CS 03	10%	Gray Silty CLAY, garbage-like odor above 20 FT, massive, "wet," "soft to very soft," "medium to high plasticity," lacustrine (cl).	3-7
15						
		CS 04		50%		5-15
20					(cont.)	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-259 OWNER: SELFRIEDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 586.09 TOTAL DEPTH: 36 ft  
 SURFACE ELEVATION: 584.44 WATER LEVEL: 2.0 ft  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-3-88  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 2-3-88  
 LOG BY: WLN/WLN CHECKED BY: HMR/ALM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		60%		2-5
25					25.0	
		CS 06		60%	Gray Silty CLAY, trace sand, massive "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	50-200
30						
		CS 07		100%		10-60
35					E.O.B. at 36 FT	
40						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-160 OWNER: SELFHRIDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 583.67 TOTAL DEPTH: 20 FT  
 SURFACE ELEVATION: 581.29 WATER LEVEL: 13 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-25-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-25-88  
 LOG BY: WLN/WLN CHECKED BY: HMR/RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	GVA (units)
0					Black to dark gray Clayey SILT, organic, frozen in upper 0.5 FT. massive, "medium stiff", "low plasticity", topsoil (01).	1.5
		CS 01		60%	Brown medium-grained SAND, massive "moist", "loose", alluvial (sp).	0
5						5.0
		CS 02		100%	Brown to gray Silty CLAY with brown iron-stain mottling, some lamination, "moist", "stiff", "low plasticity", lacustrine or alluvial (cl).	0
10					Gray Clayey SILT, some sand, some lamination, "moist", "stiff", "low plasticity", lacustrine or alluvial (ml).	10.5
		CS 03		100%	Gray Silty CLAY, massive, "moist to wet" above 13 FT, "wet" below 13 FT "soft", medium to high plasticity (cl).	0
15					▽ 13.0	
		CS 04		100%		1.5
20					E.O.B. at 20 Ft	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-261 OWNER: SELFRIDGE ANGR  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 583.17 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 581.29 WATER LEVEL: 14 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-4-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 2-4-88  
 LOG BY: WLN/WLN CHECKED BY: HMR/RLN SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black to dark gray organic Clayey SILT, frozen in upper 0.5 FT. massive, "medium stiff", "low plasticity", topsoil (cl). 1.5	
		CS 01		60%	Brown medium-grained SAND, massive, "moist", "loose", alluvial (sp). 5.0	0-1
5		CS 02		100%	Brown to gray Silty CLAY with brown iron-stain mottling, some lamination, "moist", "stiff", "low plasticity", lacustrine or alluvial (cl). 8.0	1
10					Gray Clayey SILT, some sand, some lamination, "moist", "stiff", "low plasticity", lacustrine or alluvial (ml). 10.5	12
		CS 03		100%	Gray Silty CLAY, massive, "moist to wet" above 14 FT, "wet below 14 FT" "soft to very soft", "medium to high plasticity" (cl). 14.0	10-12
15		CS 04		100%		20-50
20					(cont.)	



# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-061 OWNER: SELFREDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 583.17 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 581.29 WATER LEVEL: 14 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-4-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 2-4-88  
 LOG BY: WLL/WLN CHECKED BY: HMR/RLN SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SCIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		80%		80-100
25						
		CS 06		80%		30-50
30						
		CS 07		100%	31.0 Gray Silty CLAY to Sandy CLAY, generally massive with sand layer at 31 FT. "wet", "soft to very soft", "medium to high plasticity" (cl.sc).	80-200
35					E.O.B. at 35 Ft	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-162 OWNER: SELFRIEDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 585.26 TOTAL DEPTH: 16.1 FT  
 SURFACE ELEVATION: 583.04 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-24-88  
 DRILLER: DAVE CRUISE HELPER: Tim Ebert WELL COMPLETED: 1-24-88  
 LOG BY: JDO/WLN CHECKED BY: HMR/RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, organic, abundant plant roots, massive, "moist", "soft", "low plasticity", topsoil (01). 1.5	
		CS 01		46%	Brown Silty SAND with brown iron-stain mottling, massive, "moist", "loose", alluvial (sm). 5.3	0
5					Brown Clayey SILT with gray mottling, massive, "moist", "stiff", "low plasticity", lacustrine or alluvial (ml). 7.0	
		CS 02		100%	Light gray Silty CLAY, massive, "moist", "stiff to very stiff", "low plasticity", lacustrine or alluvial (cl). 8.5	0
10					Gray Clayey SILT, some sand, massive, "moist", "soft", "low plasticity", lacustrine or alluvial (ml). 10.0	
		CS 03		100%	Gray Silty CLAY with minor gray mottling, massive, "wet" below 11 FT, "soft to very soft", "medium to high plasticity" (cl). 11.0	0
15						NK
20					E.O.B. at 16.1 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-263 OWNER: SELFRIDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 585.07 TOTAL DEPTH: 36 FT.  
 SURFACE ELEVATION: 583.04 WATER LEVEL: 12 FT.  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-24-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-24-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black organic CLAYEY SILT, abundant plant roots, massive, "moist", "soft", "low plasticity", topsoil (ol). 1.5	
		CS 01		60%	Brown SILTY SAND with brown iron - stain mottling, massive, "moist", "loose", alluvial (sm). 5.3	0
5						
		CS 02		100%	Brown CLAYEY SILT with gray mottling massive, "moist", "stiff", "low plasticity", lacustrine or alluvial (ml). 7.0	0
					Light gray SILTY CLAY, massive, "moist" "stiff to very stiff", "low plasticity", lacustrine or alluvial (cl). 8.5	
10					Gray CLAYEY SILT, some sand, massive "moist", "soft", "low plasticity", lacustrine or alluvial (ml). 10.0	
		CS 03		100%	Gray SILTY CLAY, massive, "wet" below 12FT., "soft" to very soft, "high plasticity", lacustrine (cl). 12.0	0
15						
		M001	CS 04	100%		0.5
20						3-12

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 01-263 OWNER: SELFHIDGE ANGB  
 LOCATION: SOUTHWEST ADDRESS: MT. CLEMENS.  
LANDFILL (SWLF) MICHIGAN  
 CASING ELEVATION: 585.07 TOTAL DEPTH: 36 FT  
 SURFACE ELEVATION: 583.04 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-24-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-24-88  
 LOG BY: WLN/WLN CHECKED BY: HMR/RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		100%		1
25					24.0	
		CS 06		100%	Gray Silty CLAY, trace sand and gravel, generally massive with a few thin sand layers, "wet", "soft to very soft", "medium plasticity", lacustrine (cl).	1-4
30						1-4
		CS 07		60%		10-30
35						NK
					E.O.B. at 36 Ft	
40						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 02-164 OWNER: SELFRIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: 580.42 TOTAL DEPTH: 18.0 FT  
 SURFACE ELEVATION: 578.32 WATER LEVEL: 10.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-23-88  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 1-23-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Brown Clayey SILT, some sand, topsoil development (fill).	0
		CS 01		24%	2.5	NK
5					Brown Clayey SILT and Silty CLAY with gray laminations and mottling, "moist", "stiff", "low plasticity", lacustrine (ml, cl).	
		CS 02		100%	9.0	0
10					Gray Silty CLAY with mottling, "moist", "stiff", "med. plast.", lacust. (cl) ▽ 10.0	
		CS 03		100%	10.0 Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity",	1-3
15						
		CS 04		100%	18.0	10-40
20					E.O.B. at 18 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 02-165 OWNER: SELFRIEDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: 581.55 TOTAL DEPTH: 17.5 FT  
 SURFACE ELEVATION: 579.94 WATER LEVEL: 11.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-23-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-23-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	SVA (units)
0					Dark brown SILT and miscellaneous fill, including rocks and pieces of asphalt, "moist", (fill).	
		CS 01	4%		2.5	0
5					Tan SILT with iron-stain mottling, some sand, plant roots, laminated, "moist", "stiff", "low plasticity", lacustrine (ml).	
		CS 02	94%		8.9	0
10					Brown-gray Silty CLAY, some iron-stain mottling, laminated "moist", "stiff", "low plasticity", lacustrine (cl). 9.7	
		CS 03	100%		Gray Silty CLAY, some gray mottling, massive, "moist", "soft", "medium to high plasticity", lacustrine, (cl). 11.0	0.5-2.0
15		CS 04	96%			5-8
20					E.O.B. at 17.5 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 02-166 OWNER: SELFRIDGE ANGB  
 LOCATION: FIRE TRAINING ADDRESS: MT. CLEMENS,  
AREA # 2 (FTA-2) MICHIGAN  
 CASING ELEVATION: 581.89 TOTAL DEPTH: 17.5 FT  
 SURFACE ELEVATION: 580.25 WATER LEVEL: 11.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-22-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-23-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black and brown SILT, plant roots "moist", topsoil (01). 0.2	
		CS 01	50%		Brown SILTY SAND with iron stain mottling, "moist, lacustrine (sm). 2.4	NI
5		CS 02	100%		Brown SILTY CLAY and CLAYEY SILT with iron-stain mottling, laminated, "moist", "low plasticity", lacustrine (cl, ml). 8.0	1.0
10					Light gray SILTY CLAY with thin sand lenses, "moist", "medium to high plasticity", lacustrine (cl). 10.0	
15		CS 03	100%		Gray SILTY CLAY, massive "moist to wet", "high plast- icity", lacustrine (cl). 11.0	3-12
		CS 04	100%			10-15
20					E.O.B. at 17.5 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-148 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS.  
(WRMP) MICHIGAN  
 CASING ELEVATION: 582.08 TOTAL DEPTH: 16 FT  
 SURFACE ELEVATION: 579.80 WATER LEVEL: 10 FT (DURING DRILLING)  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-22-88  
 DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-22-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Brown Clayey SILT to Clayey SAND with dark brown iron-stain mottles, becoming more clayey at base, plant roots near top, massive, "stiff to very stiff" (fill with topsoil development near top).	NK
5		CS 01		67 %	5.0	NK
		CS 02		100%	Brown Clayey SILT with gray laminations and mottles, "moist", "stiff", "low plasticity", lacustrine, (ml). 7.5	0
10					Gray to brown Silty CLAY, laminated, "moist", "stiff", "low plasticity", lacustrine (cl). 10.0 ▽ 11.0	
15		CS 03		100%	Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 16.0	3-6
20					E.O.B. at 16 FT	



# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-249 OWNER: SELFRIEDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS.  
(WRMP) MICHIGAN  
 CASING ELEVATION: 581.54 TOTAL DEPTH: 27.1 FT  
 SURFACE ELEVATION: 579.70 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-3-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 2-3-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	QVA (units)
0		CS 01		70%	Brown Clayey SAND with dark brown iron-stain mottles, roots near top, massive, "moist", "dense to very dense" (fill with topsoil development near top).	0
5					5.0	
		CS 02		100%	Brown to gray Silty CLAY with brown iron-stain mottles becoming more gray towards base, laminated, "moist", "medium stiff", "medium plastic", lacustrine (cl).	0
10					10.0	
		CS 03		100%	Gray Silty CLAY with gray mottling massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	1
15					11.0	
		CS 04		100%		i-2
20					(cont.)	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-249 SELFDRIDGE ANGB  
 LOCATION: WEST RAMP MT. CLEMENS.  
                   (WRMP) MICHIGAN  
 CASING ELEVATION: 581.54 TOTAL DEPTH: 27.1 FT  
 SURFACE ELEVATION: 579.70 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 H3A BORING COMPLETED: 2-3-88  
 DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 2-3-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		96%	23.0	1-8
25					Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc).	
		CS 06		95%	25.0	10- 1000
					Gray Silty SAND to Clayey SAND, some gravel, massive, "moist to dry", "dense to very dense", "low plasticity, till (sm, sc).	
30					27.1	
					E.O.B. at 27.1 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-150 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
(WRMP) MICHIGAN  
 CASING ELEVATION: 581.71 TOTAL DEPTH: 15 FT  
 SURFACE ELEVATION: 579.15 WATER LEVEL: 8 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-21-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-21-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black SILT, organic, roots, frozen, "low plasticity" (topsoil in fill). 1.0	
		CS 01		100%	Dark brown Sandy SILT, layered, "moist", "medium stiff to soft", "low plasticity" (fill). 3.0	0
5		CS 02		82%	Brown to gray Silty CLAY to Clayey SILT with laminations and iron-stain mottling, "moist", "medium stiff", "low plasticity", lacustrine (cl. ml). 7.0	0.5
10		CS 03		90%	Light gray Silty CLAY with gray mottling, massive, "wet" below 8 FT, "soft to very soft", "medium to high plasticity". 8.0	0.0-1.0
15					15.0	
					E.O.B. at 15 FT	
20						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-251 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
(WRMP) MICHIGAN  
 CASING ELEVATION: 581.12 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 579.15 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-27-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-27-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, some gravel, roots near top, frozen, "low plasticity", (topsoil in fill). 1.25	
		CS 01		60%	Light brown Sandy SILT, layered, "moist to dry", "firm", "low plasticity", (fill). 3.0	0
5		CS 02		40%	Brown to gray Silty CLAY to Clayey SILT with sand laminations and iron-stain mottling, "medium stiff to very stiff", "low plasticity", lacustrine (cl, ml). 10.0	0
10		CS 03		100%	Gray Silty CLAY with minor mottling above 11 FT, massive, "soft", "medium to high plasticity", lacustrine (cl). 11.0	0
15		CS 04		100%	(cont.)	1-2
20						0.25

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-251 OWNER: SELFRIIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
(WRMP) MICHIGAN  
 CASING ELEVATION: 581.12 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 579.15 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-27-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-26/27-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05	80%			NK
25					25.0	
		CS 06	80%		Gray Silty CLAY, some gravel, massive, "wet" soft to medium stiff, "medium plasticity", lacustrine-reworked till (cl). 26.0	NK
30					Gray GRAVELLY SILT to SAND, trace clay, massive, "dry" below 27 FT, "dense to very dense", "low plasticity", till (gm).	
		CS 07	90%			NK
35					E.O.B. at 35 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-152 OWNER: SELFRIEDGE ANGB  
 LOCATION: WEST HAMP ADDRESS: MT. CLEMENS.  
 (WRMP) MICHIGAN  
 CASING ELEVATION: 582.00 TOTAL DEPTH: 18.25 FT  
 SURFACE ELEVATION: 577.68 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON JIM BOERST WELL COMPLETED: 1-20-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0						
		CS 01	10X		Brown Clayey SILT, some sand, abundant roots, massive, frozen, "very stiff to hard", "low plasticity", (fill with topsoil development near top). 3.5	0
5		CS 02	100X		Brown Silty CLAY with prominent laminations and iron-stain mottles "moist", "stiff", becoming stiffer near base, "low to medium plasticity", lacustrine (cl), 11.0	0
10		CS 03	100X		Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 11.0	0
15		CS 04	100X			1-3
20					E.O.B. at 18.25 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-253 OWNER: SELFRIIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS.  
(WRMP) MICHIGAN  
 CASING ELEVATION: 582.15 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 577.68 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-21-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-21-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Brown Clayey SILT. some sand, abundant roots in top several feet, massive, frozen in top 1 foot. "very stiff to hard", "low plasticity", (fill with topsoil development).	0
		CS 01		10%	3.5	
5					Brown Silty CLAY with prominent laminations and iron-stain mottles, "moist", "stiff", becoming stiffer near base. "low to medium plasticity", lacustrine (cl).	0
		CS 02		100%		
10					11.0	
		CS 03		100%	Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0
15						
		CS 04		100%		1-3
20					(cont.)	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-253 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
(WRMP) MICHIGAN  
 CASING ELEVATION: 582.15 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 577.68 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-21-88  
 DRILLER: KEVIN McCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-21-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		100%	22.0 Gray Sandy CLAY, trace to some gravel, massive, "wet", "soft to medium stiff", "medium to high plasticity", lacustrine reworked till (sc).	NK
25		CS 06		30%	26.5 Gray Clayey SAND to Silty SAND, some gravel and silt, massive, "moist to dry", "dense to very dense", "low plasticity", till (sc, sm).	3-10
30		CS 07		8%		200
35					E.O.B. at 35 FT	



# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-154 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
(WRMF) MICHIGAN  
 CASING ELEVATION: 580.87 TOTAL DEPTH: 15 FT  
 SURFACE ELEVATION: 579.01 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 H3A BORING COMPLETED: \_\_\_\_\_  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-21-88  
 LOG BY: JDC/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0						
		CS 01		100%	Brown and gray SILT and CLAY with brown mottling, some gravel, roots in upper 2.5 FT. "moist", "medium stiff", "low plasticity" (fill with topsoil development in top several feet).	0
5					5.0	
		CS 02		100%	Gray SILTY CLAY with brown iron-stain mottling, laminated, "moist", "medium stiff", "medium plasticity", lacustrine (cl).	0
10					10.0	
		CS 03		100%	Gray SILTY CLAY with gray mottling, massive, "wet", "soft to very soft", "high plasticity", lacustrine (cl).	1-3
15					15.0	
					E.O.B. at 15 FT	
20						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-255 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
(WRMP) MICHIGAN  
 CASING ELEVATION: 580.34 TOTAL DEPTH: 34 FT  
 SURFACE ELEVATION: 579.01 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-20-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0						
		CS 01		100%	Brown and gray SILT and CLAY with brown mottling, some gravel, roots in top 2.5 FT, "moist", "medium stiff" "low plasticity", (fill with topsoil development in top several feet).	0
5					5.0	
		CS 02		100%	Gray Silty CLAY with brown iron-stain mottling, laminated, "moist", "medium stiff", "medium plasticity", lacustrine (cl).	0
10					10.0	
		CS 03		100%	Gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	1-3
15						
		CS 04		82%		2-6
20					18.0	
					Gray Silty CLAY with silt layers, dark gray mottling, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). (cont.)	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 04-255 OWNER: SELFRIDGE ANGB  
 LOCATION: WEST RAMP ADDRESS: MT. CLEMENS,  
(WRMP) MICHIGAN  
 CASING ELEVATION: 580.34 TOTAL DEPTH: 34 FT  
 SURFACE ELEVATION: 579.01 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-20-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		70%		5-10
25					25.0	
		CS 06		70%	Gray Sandy CLAY to Clayey SAND, some gravel, massive, "wet", "soft", "medium to high plasticity", lacustrine reworked till (sc).	10-100
30					30.0	
		CS 07		68%	Gray Clayey SAND and Silty SAND, OVA in borehole at 30 FT = 800-900 units, some gravel, massive, "moist", "medium dense to dense", till (sc, sm).	0-10
35					E.O.B. at 34 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-130 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 577.48 TOTAL DEPTH: 15 FT  
 SURFACE ELEVATION: 575.14 WATER LEVEL: 13 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-12-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-12-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					No sample recovery	
		CS 01	ox			NK
5					5.0	
		CS 02	98x		Black SILT, organic, buried topsoil (cl). 5.5 Gray Silty CLAY with brown mottling, massive, "moist" above 13 FT. "wet" below 13 FT. "medium stiff to soft", "medium to high plasticity", lacustrine (cl).	0
10		CS 03	100x			0
15					▽ 13.0	
					E.O.B. at 15.0 FT	
20						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-231 OWNER: SELFRIEDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 577.49 TOTAL DEPTH: 35.1 FT  
 SURFACE ELEVATION: 575.14 WATER LEVEL: 13 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-12-88  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 1-12-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					No sample recovery	
5		CS 01	0x			NK
					5.0	
					Black SILT, organic, buried topsoil (ol).	
					5.5	
		CS 02	98x		Gray Silty CLAY with brown mottling, massive, "moist" above 13 FT. "wet" below 13 FT. "medium stiff to soft", "medium to high plasticity", lacustrine (cl).	0
10						
		CS 03	100x			0
					▽ 13.0	
15						
		CS 04	98x			0-1
20						
					20.0	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-231 OWNER: SELFRIEDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 577.49 TOTAL DEPTH: 35.1 FT  
 SURFACE ELEVATION: 575.14 WATER LEVEL: 13 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-12-88  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 1-12-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY *	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20						
		CS 05	60X		Gray Silty CLAY to Sandy CLAY with gray and brown mottling, generally massive with some thin sand layers, "wet", "medium stiff to soft", "medium plasticity", lacustrine-reworked till (cl, sc).	0.5
25		CS 06	18X		Gray Sandy SILT to SILTY SAND, some gravel and clay, massive, "dry to moist", very hard, "low plasticity", till (sm).	1-10
30		SS 07	30 60 100			1-5
						NK
35					E.O.B. at 35.1 FT	NK

\* Sample SS-07 was obtained using the Standard Penetration Test (ASTM D-1586). Values shown are blow counts.

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-132 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 575.11 TOTAL DEPTH: 15 FT  
 SURFACE ELEVATION: 572.37 WATER LEVEL: 8.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-12-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-12-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, massive, frozen, "medium stiff", "low plasticity", (topsoil in fill). 2.0	
5		CS 01	5%		Brown Silty CLAY with brown iron-stain mottling, prominent laminations, "medium stiff to stiff", "low to medium plasticity", lacustrine (cl). 8.5	0.5
10		CS 02	100%			0
15		CS 03	100%		Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 10.0	1-3
20					E.O.B. at 15.0 FT	3-10

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-233 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 576.06 TOTAL DEPTH: 35.5 FT  
 SURFACE ELEVATION: 572.37 WATER LEVEL: 8.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-12-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-12-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, massive, frozen, "medium stiff", "low plasticity", (topsoil in fill). 2.0	
5		CS 01	5%		Brown Silty CLAY with brown iron-stain mottling, prominent laminations, "moist", "medium stiff to stiff", "low to medium plasticity", lacustrine (cl). <div style="text-align: center;">▽ 8.5</div>	0.5
10		CS 02	100%		10.0	0
15		CS 03	100%		Gray Silty CLAY, massive, "wet", "very soft to soft", "med. to high plasticity", lacustrine (cl). 18.0	1-3
		CS 04	80%		Gray Sandy CLAY, some silt, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc). (cont.)	3-10
20						0
						6-10
						NK



# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-233 OWNER: SELFRIEDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 576.06 TOTAL DEPTH: 35.5 FT  
 SURFACE ELEVATION: 572.37 WATER LEVEL: 8.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-12-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-12-88  
 LOG BY: WLN & JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		80%	24.0	2-5
25		CS 06		45%	Gray Silty SAND, some clay and gravel, massive, "moist", becoming "dry" near base, "dense to very dense", "low plasticity", till (sm).	5-9
30		CS 07		20%		10-100
35					E.O.B. at 35.5 FT	
40						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-134 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS.  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 578.71 TOTAL DEPTH: 15 FT  
 SURFACE ELEVATION: 576.35 WATER LEVEL: 9.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-13-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-13-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Dark brown Clayey SILT, massive, frozen in top 10". "moist", below 10". "medium stiff to stiff", "low plasticity", (topsoil in fill). 2.0	
		CS 01	10X		Brown Silty CLAY with prominent gray mottling. "moist", "medium stiff to stiff", "low plasticity", (fill).	0
5						
		CS 02	100X		Black Silty CLAY, abundant roots and plant material, massive, "soft", "medium plasticity", buried topsoil (cl) 7.5	0
10					▽ 9.5	
		CS 03	100X		Gray Silty CLAY with minor mottling, laminated, "medium stiff", "wet", low to med .plasticity", lacustrine (cl).	0
15					E.O.B. at 15 FT	
20						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-235 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK LANDFILL ADDRESS: MT. CLEMENS,  
(TCLF) MICHIGAN  
 CASING ELEVATION: 580.06 TOTAL DEPTH: 34 FT.  
 SURFACE ELEVATION: 578.08 WATER LEVEL: 15 FT.  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-19-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-19-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Gray black to brown SILT, roots near top, road aggregate near base, frozen (topsoil in fill)	
		CS 01		22%	Black SILT and SAND, some gravel, friable, "moist to very moist", "medium dense", "low plasticity" (fill).	0
5		CS 02		28%		300-400
10		CS 03		2%		40
15		CS 04		2%	Gray SILTY CLAY with brown and gray mottling, "wet", "soft", "medium to high plasticity", lacustrine (cl).	4-5
20					15.0 20.0	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-235 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK LANDFILL ADDRESS: MT. CLEMENS,  
(TCLF) MICHIGAN  
 CASING ELEVATION: 580.06 TOTAL DEPTH: 34 FT.  
 SURFACE ELEVATION: 578.08 WATER LEVEL: 15 FT.  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-19-88  
 DRILLER: DAVE CRUISE HELPER: TIM EBERT WELL COMPLETED: 1-19-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		28%	Gray SANDY CLAY with gray - brown mottling, generally massive with thin sand layers, "wet", "soft to very soft", "medium to high plasticity". lacustrine - reworked till(sc)	1-2
25		CS 06		100%		5-10
30		CS 07		100%		7-10
35					EOB AT 34 FT.	
40						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 05-167 OWNER: SELFRIDGE ANGB  
 LOCATION: TUCKER CREEK ADDRESS: MT. CLEMENS,  
LANDFILL (TCLF) MICHIGAN  
 CASING ELEVATION: 577.03 TOTAL DEPTH: 20 FT  
 SURFACE ELEVATION: 574.92 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-4-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 2-4-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Gray-brown to rust-brown SILT, some gravel, plant roots, "moist", "medium stiff to stiff", "low plasticity", fill with topsoil development near top (fill). 3.0	0
5		CS 01		34%		
					Green-gray to brown-gray Silty CLAY with brown and gray mottling, "moist" above 12 FT, "wet" below 12 FT, "stiff", becoming "soft" near base, "medium to high plasticity", lacustrine (cl).	0
10		CS 02		90%		
					▽ 12.0	1-2
15		CS 03		100%		
					15.0	
20		CS 04		100%	Gray Silty CLAY to Sandy CLAY, silt and sand occurring in thin layers, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (cl.sc). E.O.B. at 20 FT	3-6

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 06-144 OWNER: SELFRIDGE ANGB  
 LOCATION: NORTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (NWLF) MICHIGAN  
 CASING ELEVATION: 587.70 TOTAL DEPTH: 15 FT  
 SURFACE ELEVATION: 585.23 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-22-88  
 DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-22-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black SILT-SAND-GRAVEL aggregate (fill for adjacent road).	
		CS 01	6%		2.0	0
5					Brown SILTY CLAY, massive, "moist", "stiff", "low plasticity", lacustrine (cl).	
		CS 02	80%		7.3	0
					Brown SILTY CLAY with sand laminations, "moist", "stiff", "low plasticity", lacustrine (cl).	
					7.8	
10					Brown medium-grained SAND, massive, "moist", "loose to medium dense", lacustrine (sp).	
					10.0	
		CS 03	100%		Gray SILTY CLAY, massive, "moist" above 12 FT, "medium stiff to stiff to soft", lacustrine (cl).	0.5 -
					12.0	1.5
15		04	100%			1-B
		CS				
20					E.O.B. at 18.5 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 06-245 OWNER: SELFRIDGE ANGB  
 LOCATION: NORTHWEST ADDRESS: MT. CLEMENS.  
LANDFILL (NWLF) MICHIGAN  
 CASING ELEVATION: 587.55 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 585.23 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-2-88  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 2-2-88  
 LOG BY: CKW/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black-brown Clayey SILT, roots near top, topsoil (cl).	
		CS 01		20%	2.0	0
					Brown Silty CLAY, massive, "moist", "stiff", "low plasticity", lacustrine (cl).	
5					5.0	
		CS 02		60%	Brown Silty CLAY with sand laminations, "moist", "stiff", "low plasticity", lacustrine (cl).	0
					8.0	
					Brown medium SAND, massive, "moist", loose to medium dense", lacustrine (sp)Q	
10					10.0	
	M001	CS 03		100%	Brown-gray Silty CLAY, massive, "very moist" above 12 FT, "wet" below 12 FT, "soft", "medium to high plasticity", lacustrine (cl). $\nabla$ 12.0	0
15						
		CS 04		100%		0.0 - 0.5
20					(cont.)	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 06-245 OWNER: SELFRIDGE ANGB  
 LOCATION: NORTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (NWLF) MICHIGAN  
 CASING ELEVATION: 587.55 TOTAL DEPTH: 35 FT  
 SURFACE ELEVATION: 585.23 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-2-88  
 DRILLER: DAVE CRUISE HELPER: GREG SCALLON WELL COMPLETED: 2-2-88  
 LOG BY: CKW/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20						
		CS 05	100%		As above	0.5 - 1.0
25		CS 06	100%			0.5 - 1.0
30		CS 07	100%		Gray Silty SAND to Sandy SILT, some gravel, massive, "moist", becoming "dry" near base, "dense", "low plasticity", till (sm).	0.5 - 5.0
35					E.O.B. at 35 FT	



# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 06-146 OWNER: SELFRIDGE ANGB  
 LOCATION: NORTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (NWLF) MICHIGAN  
 CASING ELEVATION: 583.98 TOTAL DEPTH: 18.5 FT  
 SURFACE ELEVATION: 579.99 WATER LEVEL: 10.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-22/23-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-12-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black-dark brown Clayey SILT, abundant roots in upper 2 FT. "massive". "medium stiff". "low plasticity". topsoil (cl).	
		CS 01	70%		2.5	0
					Light brown and gray Silty SAND, massive. "moist". "loose". lacustrine (sm).	
5					5.0	
		CS 02	100%		Light brown Clayey SILT with prominent gray mottling. massive. "moist". "stiff". "low plasticity". lacustrine (ml). 7.0	0.25 - 1.0
					Dark brown to gray Silty CLAY, no mottling, some laminations. "moist". "stiff". "low to medium plasticity". lacustrine (cl).	
10					10.0	0.5 - 3.0
		CS 03	100%		12.0	
					Gray Silty CLAY, trace sand in bottom 2 FT. massive. "wet". "soft to very soft". "medium to high plasticity". lacustrine (cl).	6-10
15		CS 04	100%			2-4
20					E.O.B. at 18.5 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 06-247 OWNER: SELFRIDGE ANGB  
 LOCATION: NORTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (NWLF) MICHIGAN  
 CASING ELEVATION: 583.54 TOTAL DEPTH: 28 FT  
 SURFACE ELEVATION: 581.55 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-1-88  
 DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 2-1-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Light brown GRAVEL and SILT. plant roots near top, massive, "moist", "loose to medium dense", (fill with topsoil development near top).	0
5		CS 01		2x	5.0	
					Light brown to gray Silty CLAY with brown iron-stain mottling, black carbonized streaks at 7 FT, laminated, "moist", "stiff", "low to medium plasticity", lacustrine (cl).	0
		M001	CS 02	100%	8.5	
10					Gray Silty CLAY with gray and yellow mottling, trace sand, dark horizontal layering from 10 to 12 FT, light yellow oil-like film on surface of sample, massive, "moist" above 11 FT, "wet" below 11 FT, "medium stiff to soft", "medium to high plasticity", lacustrine (cl).	0
			CS 03	100%	11.0	
15						
			CS 04	100%		1.0
20					20.0	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 06-247 OWNER: SELFRIDGE ANGB  
 LOCATION: NORTHWEST ADDRESS: MT. CLEMENS,  
LANDFILL (NWLF) MICHIGAN  
 CASING ELEVATION: 583.54 TOTAL DEPTH: 28 FT  
 SURFACE ELEVATION: 581.55 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-1-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 2-1-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20		CS 05		100%	Gray Clayey SAND, some layering. "wet", "soft", becoming "hard" at base, "medium plasticity", lacustrine-reworked till (sc).	1:0-8.0
25		CS 06		100%		5-8
30					E.O.B. AT 28 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-136 OWNER: SELFRIEDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 577.61 TOTAL DEPTH: 18.7 FT  
 SURFACE ELEVATION: 575.53 WATER LEVEL: 12.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-20-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-20-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, organic, massive, "moist", "medium stiff", "low plasticity". (topsoil in fill).	
		CS 01		40%	2.5	0
5					Gray and brown Clayey SILT with prominent brown iron-stain mottling, some sand at 3 FT, laminated, "moist", "medium stiff to stiff", "low plasticity", lacustrine (ml).	0
10		CS 02		100%		0
					▽ 12.0 13.0	0
15		CS 03		100%	Gray Silty CLAY, no mottling, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	
		CS 04		100%		1-4
20					E.O.B. AT 18.7 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-237 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 578.31 TOTAL DEPTH: 38.5 FT  
 SURFACE ELEVATION: 575.53 WATER LEVEL: 12.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-19-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-19-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, organic, massive, "moist", "medium stiff", "low plasticity". (topsoil in fill).	
2.5		CS 01		40%		0
5					Gray and brown Clayey SILT with prominent brown iron-stain mottling, some sand at 3 FT. laminated, "moist", "medium stiff to stiff", "low plasticity". lacustrine (ml).	
10		CS 02		100%		0
12.0					▽ 12.0 13.0	0
15		CS 03		100%		
					Gray Silty CLAY, no mottling, massive, "wet", "soft to very soft", "medium to high plasticity". lacustrine (cl).	
20		CS 04		100%		1-4
					(cont.)	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-237 OWNER: SELFRIEDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 578.31 TOTAL DEPTH: 38.5 FT  
 SURFACE ELEVATION: 575.53 WATER LEVEL: 12.0 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-19-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-19-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		80%		3-12
25						
		CS 06		80%		3-6
30						
		CS 07		90%		5-11
35						
		CS 08		100%		NK
					37.0 Gray Sandy CLAY, massive, "wet", "soft", "medium to high plasticity", lacustrine-reworked till (sc).	
40					E.O.B. AT 38.5 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-138 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS.  
MICHIGAN  
 CASING ELEVATION: 576.66 TOTAL DEPTH: 17 FT  
 SURFACE ELEVATION: 574.42 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-24-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-24-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black SILT. organic. (topsoil in fill) 0.3	
5		CS 01	30%		Brown to dark gray Silty CLAY with brown iron-stain mottling. some gravel from 5 to 7 FT. massive, "moist". "medium stiff to stiff". "low plasticity". fill.	0
10		CS 02	100%		Brown and gray Silty CLAY with brown iron-stain mottling. thinly laminated "moist". "medium stiff to stiff". "low to medium plasticity". lacustrine (cl). 7.0	1
15		CS 03	100%		Gray Silty CLAY with gray mottling massive, "wet", "soft to very soft". "medium to high plasticity". lacustrine (cl). 10.0	0.5
20		CS 04	100%		E.O.B. AT 17 FT	1-2

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-239 OWNER: SELFRIEDGE ANGB  
 LOCATION: EAST RAMP ADDRESS: MT. CLEMENS,  
(ERMP) MICHIGAN  
 CASING ELEVATION: 576.37 TOTAL DEPTH: 37 FT.  
 SURFACE ELEVATION: 574.42 WATER LEVEL: 10 FT.  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-27-88  
 DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-27-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black organic SILT, massive, "moist", "medium stiff", "low plasticity", topsoil (cl). 0.3	
		CS 01		30%	Brown to dark gray SILTY CLAY with brown iron - stain mottling, some gravel from 5 to 7 FT., massive, "moist", "medium stiff to stiff", "low plasticity", fill (cl).	0
5		CS 02		100%	7.0 Brown and gray SILTY CLAY with brown iron - stain mottling, thinly laminated, "moist", "medium stiff to stiff", "low to medium plasticity", lacustrine (cl).	1
10		CS 03		100%	10.0 Gray SILTY CLAY with gray mottling, massive, "wet", "soft to very soft", "high plasticity", lacustrine (cl).	0.5
15		CS 04		100%		2-8
20						



# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-239 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP ADDRESS: MT. CLEMENS,  
(ERMP) MICHIGAN  
 CASING ELEVATION: 576.37 TOTAL DEPTH: 37 FT.  
 SURFACE ELEVATION: 574.42 WATER LEVEL: 10 FT.  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 4SA BORING COMPLETED: 1-27-88  
 DRILLER: KÉVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-27-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05	100X			5-6
25						
		CS 06	100X			3-8
					Gray SANDY CLAY with gray mottling, massive, "wet", "soft", "medium to high plasticity", lacustrine - reworked till (sc).	
30						
		CS 07	100X			50 >1000
					Gray CLAYEY SAND and SILTY SAND, massive, "moist", "medium dense to dense", till (sc, sm).	
35						
		CS 08	90X			NI
					EOB at 37 FT.	
40						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-140 OWNER: SELFRIEDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 578.23 TOTAL DEPTH: 17 FT  
 SURFACE ELEVATION: 576.05 WATER LEVEL: 11 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-25-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-25-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Brown SILT, organic (topsoil in fill) .0.6	
		CS 01	6x		Light brown Silty SAND with some brown iron-stain mottling, massive, "moist", "loose to medium dense", fill	0
5					5.0	
		CS 02	100x		Brown and gray SILT to Silty CLAY with brown iron-stain mottling, trace sand, laminated, "moist", "medium stiff to stiff", "low plasticity", lacustrine (ml, cl).	0
10					11.0	
		CS 03	100x		Gray Silty CLAY, some gray mottling, massive, "wet", "soft to very soft", "high plasticity", lacustrine (cl).	0
15		CS 04	100x			0.5
20					E.O.B. AT 17 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-241 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 578.34 TOTAL DEPTH: 37 FT  
 SURFACE ELEVATION: 576.05 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-2-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 2-2-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	QVA (units)
0					Blck.SILT. organ. (topsoil in fill) . 0.6	
		CS 01		40%	Light brown SILTY SAND with some brown iron-stain mottling. massive. "moist". "loose to medium dense" (fill).	0
5					5.0	
		CS 02		100%	Brown and gray SILT to Silty CLAY with brown iron-stain mottling. trace sand. laminated. "moist". "medium stiff to stiff". "low plasticity". lacustrine (ml. cl).	0
10					11.0	
		CS 03		100%	Gray Silty CLAY. some gray mottling. massive. "wet". "soft to very soft". "med.to high plast.". lacustrine (cl).	0
15						
		CS 04		100%		2-3
20					(cont.)	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-241 OWNER: SELFRIEDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 578.34 TOTAL DEPTH: 37 FT  
 SURFACE ELEVATION: 576.05 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 2-2-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 2-2-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		100%		4-5
25						
		CS 06		100%	28.0	8-25
30					Gray Sandy CLAY with some gray and brown mottling, trace to some gravel, generally massive with some sand layers, "wet", "soft", "medium to high plasticity", lacustrine- reworked till (sc).	8-75
35		CS 07		80%		NK
					E.O.B. AT 36 FT	
40						

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-142 OWNER: SELFRIEDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 579.15 TOTAL DEPTH: 16.5 FT  
 SURFACE ELEVATION: 576.99 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-26-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-26-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	SVA (units)
0					Black Sandy SILT, organic. "moist", "medium stiff" (topsoil in fill).	
2.0		CS 01	8x		Brown Silty SAND with iron-staining. massive, "wet", "loose to medium dense", fill, grading into lacustrine (fill, sm).	0
8.0		CS 02	100%		Red-brown Silty CLAY with gray and brown mottling, some carbonized plant remains, faintly laminated, "moist", "medium stiff to stiff", "medium plasticity", lacustrine (cl).	0
12.0		CS 03	100%		Gray Silty CLAY with gray mottling. massive, "moist", "soft" "medium to high plasticity", lacustrine (cl).	0
12.0		CS 04	100%			1-4
16.5					E.O.B. AT 16.5 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-243 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP (ERMP) ADDRESS: MT. CLEMENS,  
MICHIGAN  
 CASING ELEVATION: 579.31 TOTAL DEPTH: 39 FT  
 SURFACE ELEVATION: 576.99 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-26-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-26-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Sandy SILT, organic, "moist", "medium stiff" (topsoil in fill). 2.0	
5		CS 01	.8%		Brown Silty SAND with brown iron-staining, massive, "wet", "loose to medium dense", fill, grading to lacustrine (fill. sm). 8.0	2-4
10		06 02	100%		Red-brown Silty CLAY with gray and brown mottling, some carbonized plant remains, faintly laminated, "moist", "medium stiff to stiff", lacustrine (cl). 12.0	2-3
15		CS 03	100%		Gray Silty CLAY with gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). (cont.)	2-6
20		CS 04	100%			0

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 07-243 OWNER: SELFRIDGE ANGB  
 LOCATION: EAST RAMP ADDRESS: MT. CLEMENS,  
(ERMP) MICHIGAN  
 CASING ELEVATION: 579.31 TOTAL DEPTH: 39 FT.  
 SURFACE ELEVATION: 576.99 WATER LEVEL: 12 FT.  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-26-88  
 DRILLER: KEVIN McCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-26-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 2 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
20					As above	
		CS 05		100%		2-4
25						
		CS 06		100%		2-3
30						
		CS 07		100%		2-6
35						
		CS 08		100%		
					37.0	
					Gray SANDY CLAY, becoming sandier at base, massive, "wet", "soft", "medium to high plasticity", lacustrine - reworked till (SC)	0
40					EOB at 39 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-126 OWNER: SELFRIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
                   (BCSP) MICHIGAN  
 CASING ELEVATION: 579.23 TOTAL DEPTH: 25 FT  
 SURFACE ELEVATION: 577.00 WATER LEVEL: 13 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-11-88  
 DRILLER: KEVIN MCCUMBER HELPER: GREG SCALLON WELL COMPLETED: 1-11-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 2

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, organic, (topsoil in fill). 1.0	
		CS 01	OX		No recovery	0
5					5.0	
		CS 02	96%		Brown and gray Sandy SILT with brown iron-stain mottling, some clay, laminated with light and dark material, "moist", "medium stiff", "low plasticity, lacustrine (sm).	0
10						
		CS 03	100%		13.0	1
15					Gray Silty CLAY, massive, 13.0 "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	
		CS 04	82%			4-10
20					(cont.)	





# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-127 OWNER: SELFRIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
                   (BCSP) MICHIGAN  
 CASING ELEVATION: 580.51 TOTAL DEPTH: 20 FT  
 SURFACE ELEVATION: 578.11 WATER LEVEL: 12 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-11-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-11-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Black Clayey SILT, organic, some gravel (topsoil in fill). 1.0	
		CS 01	40X		Dark brown Sandy SILT, some gravel, massive, "moist", "medium stiff to stiff", "low plasticity", fill (sm). 3.0	0
5					Light brown Sandy SILT with brown iron-stain mottling, massive, "medium stiff to stiff", "low plasticity", fill or lacustrine (sm). 6.0	
		CS 02	100X		Light brown Silty CLAY with gray mottling, laminated, "moist", "medium stiff", "low plasticity", lacustrine (cl). 12.0	0
10						
		CS 03	100X		Gray Silty CLAY, massive, "wet", "soft", "medium plasticity", lacustrine (cl). 12.0	0-1
15						
		CS 04	100X			0-1
20						

E.O.B. AT 20 FT

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-128 OWNER: SELFRIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
 CASING ELEVATION: 580.29 TOTAL DEPTH: 18 FT  
 SURFACE ELEVATION: 577.95 WATER LEVEL: 10.5 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HSA BORING COMPLETED: 1-11-88  
 DRILLER: DAVE CRUISE HELPER: JIM BOERST WELL COMPLETED: 1-11-88  
 LOG BY: WLN/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Brown Sandy SILT, some coal pieces, massive, "medium stiff", "low plasticity" (fill).	
		CS 01		10%	1.5 Not recovered	0
5		CS 02		100%	5.0 Brown Silty CLAY with brown and gray mottling, laminated "moist", "medium stiff", "low to medium plasticity", lacustrine (cl).	0-1
10		CS 03		100%	10.5 Gray Silty CLAY, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl).	0-1
15		CS 04		100%		1-3
20					E.O.B. AT 18 FT	

# DRILLING & WELL CONSTRUCTION LOG

ROY F. WESTON, INC.

WELL NUMBER: 08-129 OWNER: SELFRIIDGE ANGB  
 LOCATION: BASE COAL STORAGE PILE ADDRESS: MT. CLEMENS,  
(BCSP) MICHIGAN  
 CASING ELEVATION: 580.30 TOTAL DEPTH: 19 FT  
 SURFACE ELEVATION: 576.96 WATER LEVEL: 10 FT  
 DRILLING COMPANY: ETI DRILLING METHOD: 4.25 HGA BORING COMPLETED: 1-24-88  
 DRILLER: KEVIN MCCUMBER HELPER: JIM BOERST WELL COMPLETED: 1-24-88  
 LOG BY: JDO/WLN CHECKED BY: RLM SHEET 1 OF 1

DEPTH (FEET)	WELL DETAILS	SAMPLE NUMBER	SAMPLE TYPE	PERCENT RECOVERY	DESCRIPTION/SOIL CLASSIFICATION (COLOR, TEXTURE, STRUCTURES)	OVA (units)
0					Brown SAND, some coal pieces and gravel, massive, "moist", "loose" (fill). 2.0	
5		CS 01	16X		Green-gray to brown Silty CLAY with brown iron-stain mottling, laminated, "moist", "medium stiff", "low plasticity", lacustrine (cl).	1-2
10		CS 02	100X			1
15		CS 03	100X		Gray Silty CLAY, some brown and gray mottling, massive, "wet", "soft to very soft", "medium to high plasticity", lacustrine (cl). 10.0	1
20		CS 04	100X			3-9
					E.O.B. AT 19 FT	

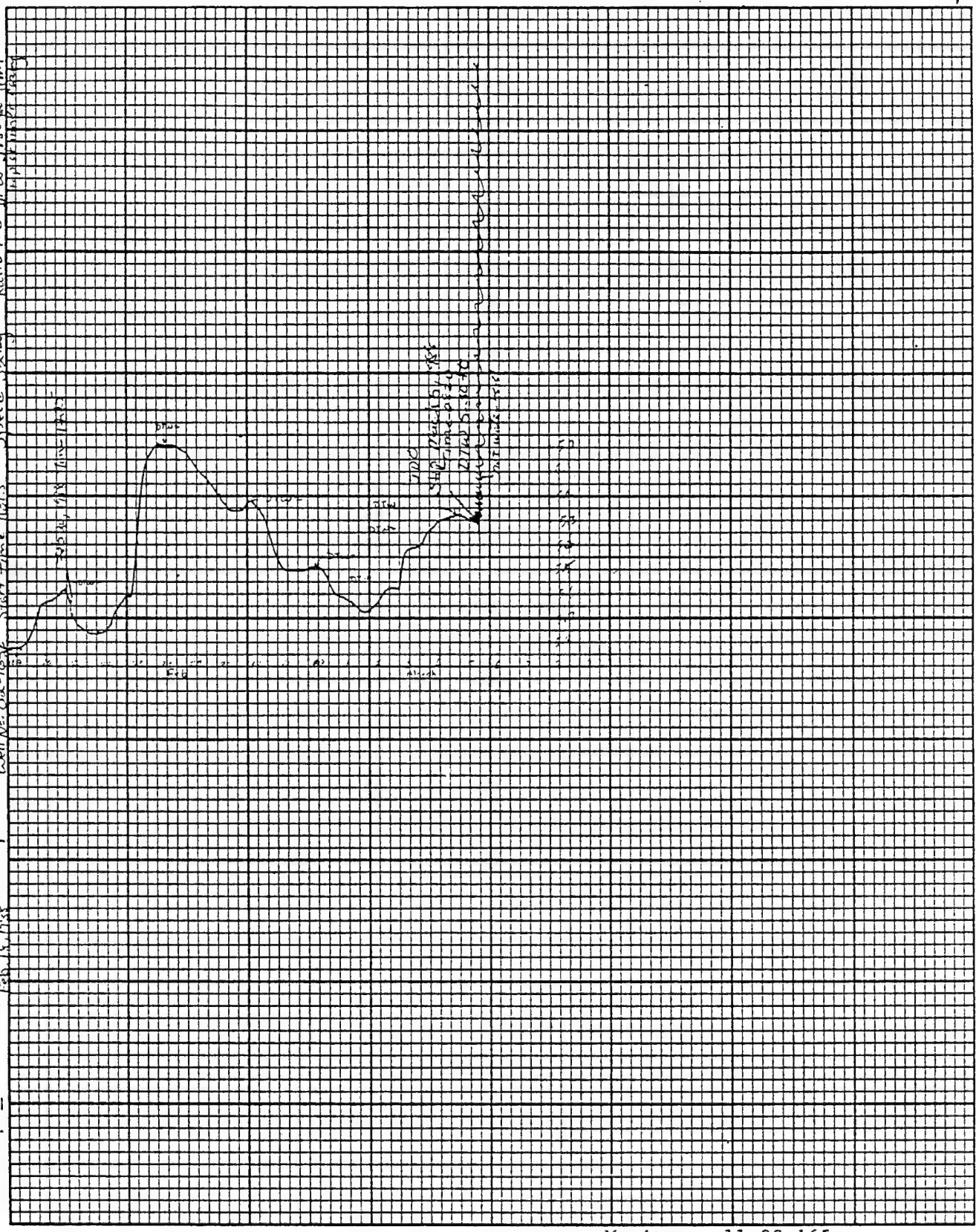


## APPENDIX H

### CONTINUOUS WATER LEVEL RECORDER DATA

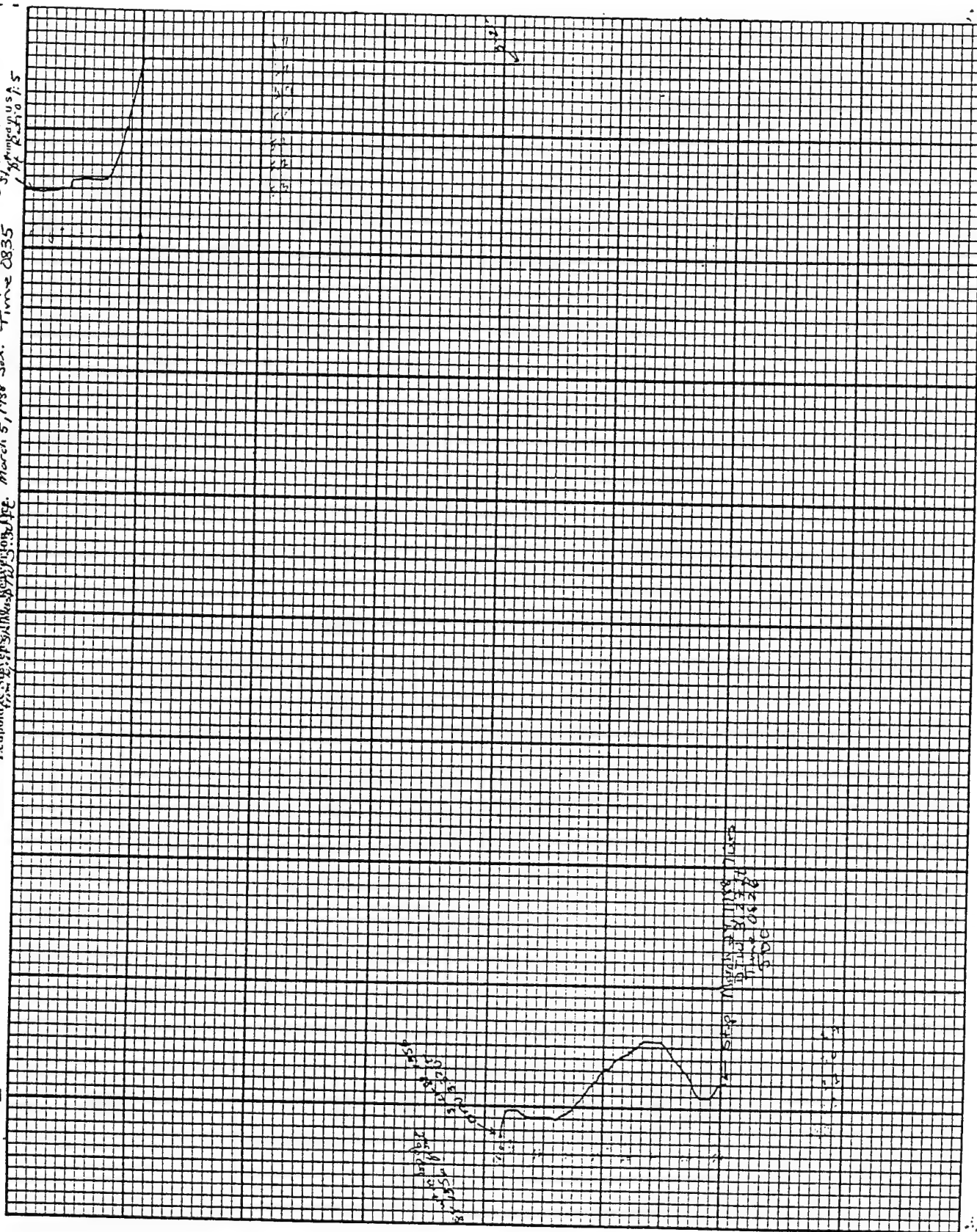


Water level rising  
FT 10.2  
Laguna de San Vicente, Off 15  
Speed 3200  
Ratio 1:5  
Pumping 12.5 ft  
10/15/58



Monitor well 02-165

Speed 3.2 dm  
 FTH #2 well No. 02-165 water rises → JDO  
 March 5, 1988 Sat. Time 0835  
 Leupold & Stevens, Inc. Buxton, N.D.



Monitor well 02-165

Stevens Water Level Recorder — Type F

Chart F-1



[illegible]

Charl F-1

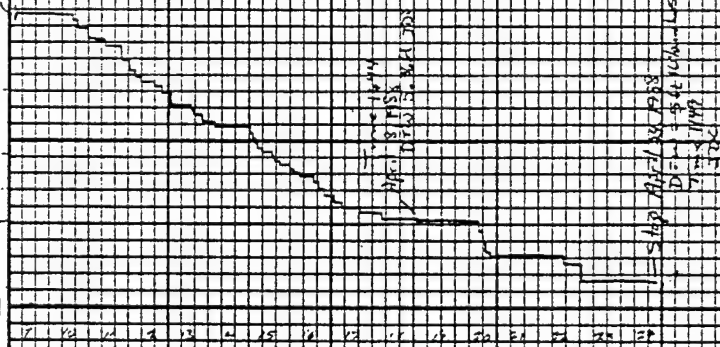
Monitor well 02-165



Well 02-165 FTA#2  
JDO  
Printed in U.S.A.

→ Water Level rising

DTW = 4.88 ft 1:5 ratio Speed 32 ft/day April 18, 1968  
Leupold & Stevens, Inc., Beaverton, Ore.



Monitor well 02-165

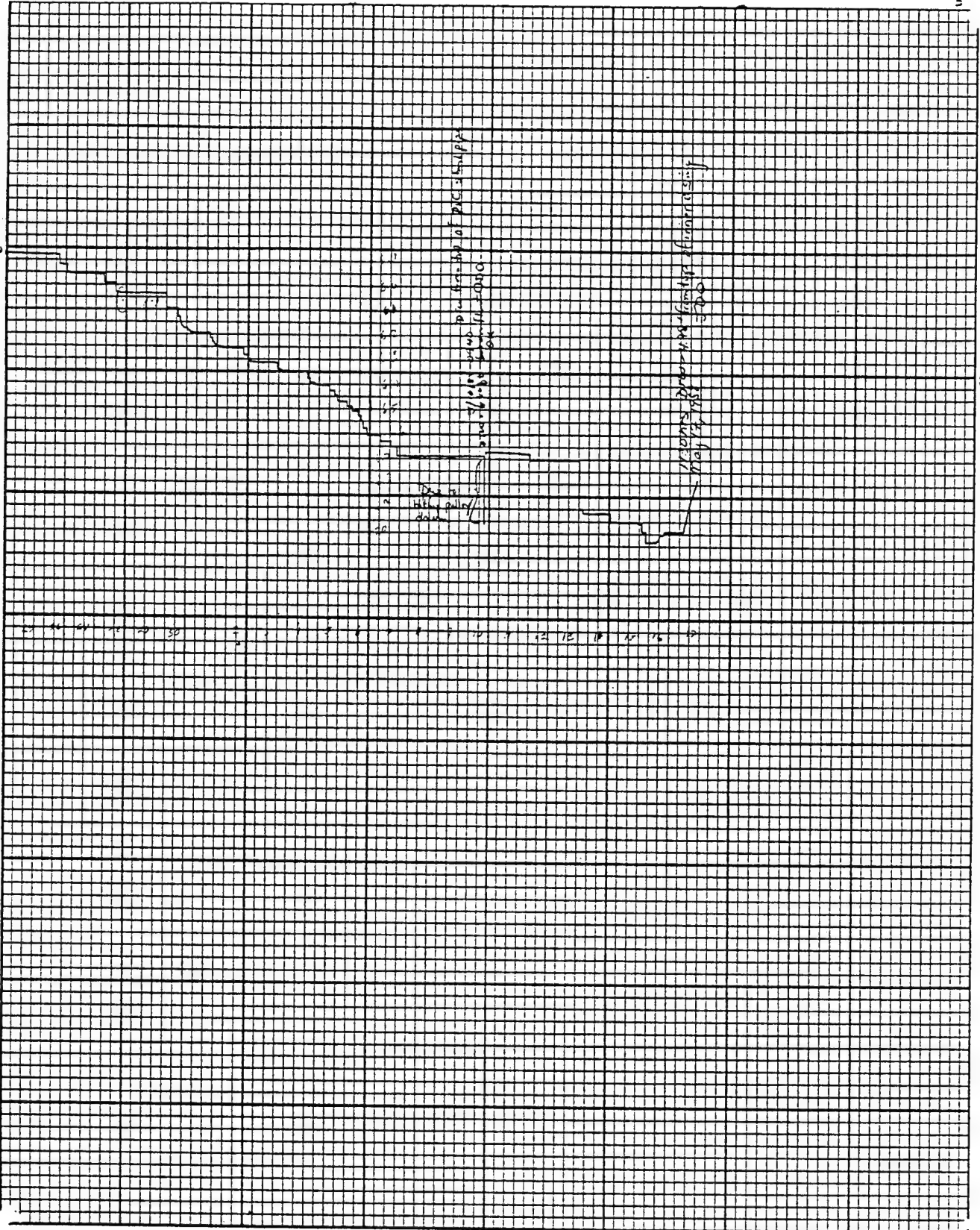
Stevens Water Level Recorder — Type F

Chart F-1

Well No. 02-165 FM77 April 19, 1958 DTW 5 ft 10 in. WWS. T.D. 6 ft 10 in. WWS. 52 day span  
 Leopold & Stevens, Inc., Beaverton, Ore. Time 11:58

Printed in U.S.A.

Start Pt



Monitor well 02-165

Stevens Water Level Recorder — Type F

(S)

Chart F-1 3



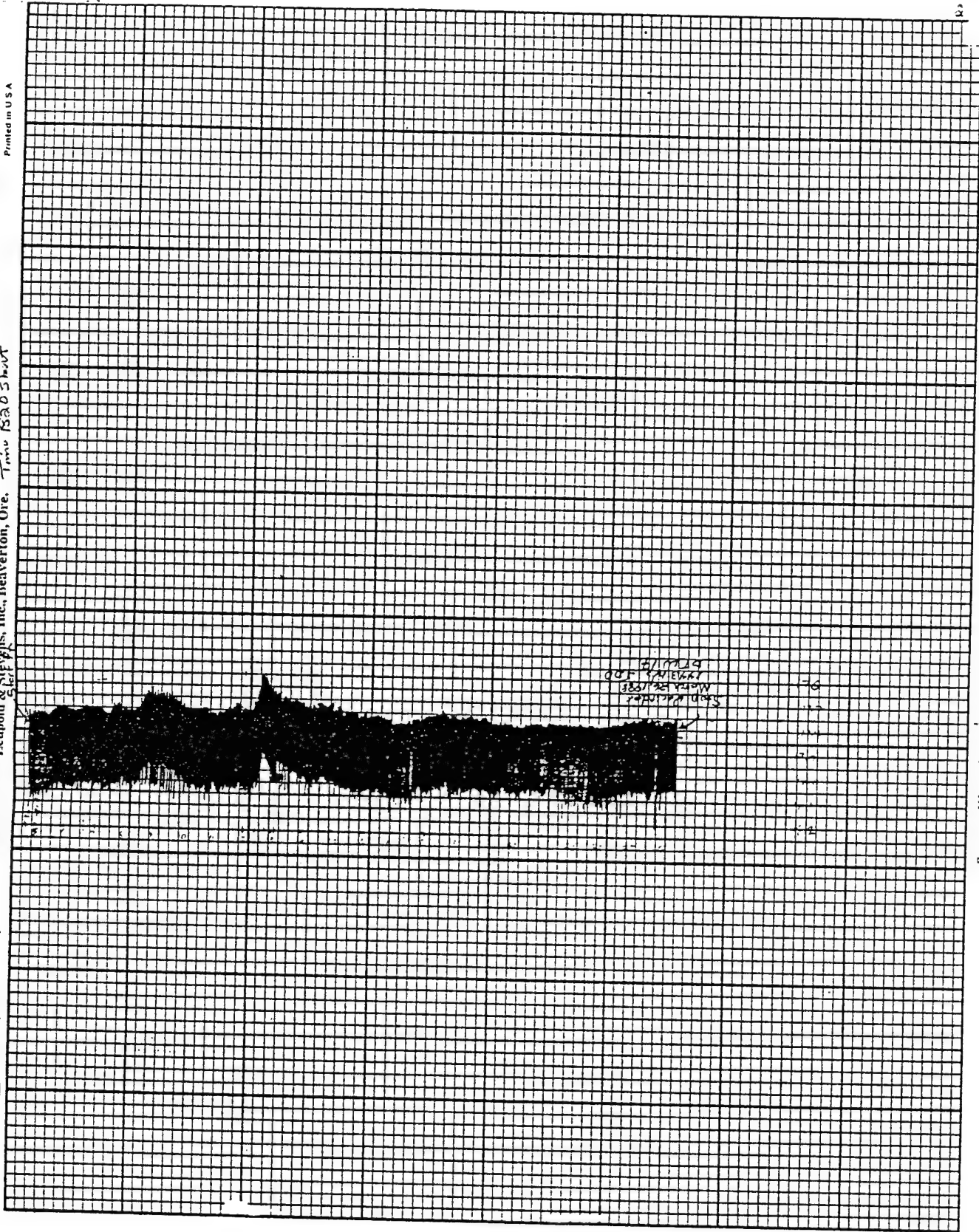
Stevens Water Level Recorder — Type F

H-6



Stevens Water Station North of Swindell  
 March 4, 1988 Friday  
 JTD Ratio 1:5 32 dry speed  
 Leopold & Stevens, Inc., Beaverton, Ore. DTW 17.83 ft  
 T<sub>min</sub> 1520.5 hwt

Printed in U.S.A.



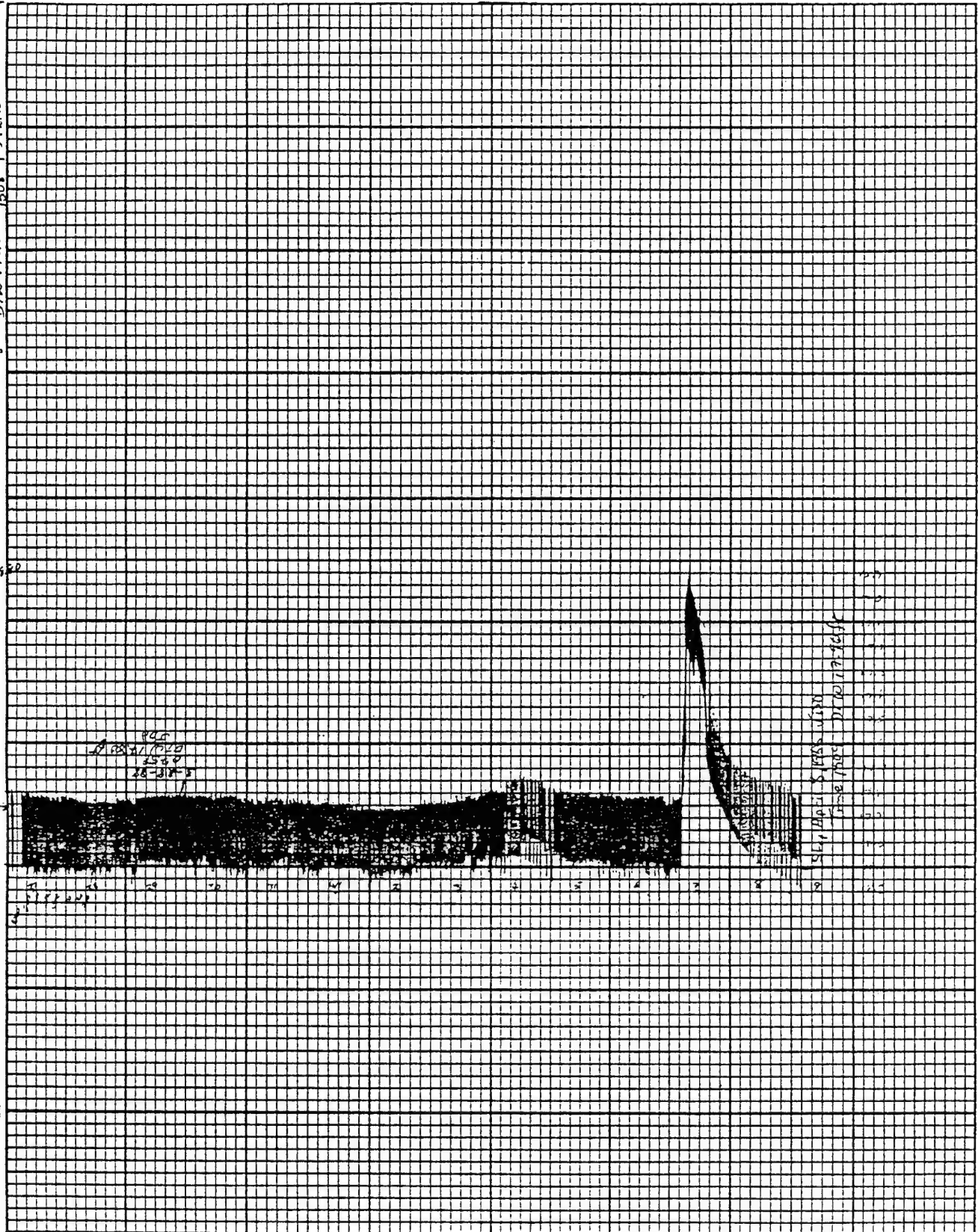
Stevens Water Level Recorder — Type F

Chart P-1

Recorder at the SWLF

JDO  
 J. D. O'Connell & Stevens, Inc., Beaverton, Ore.  
 Station: March 26, 1958  
 DTW 17.90 Time 1508  
 Speed 16 days  
 Printed in U.S.A.  
 1-5 Ratio

Water Level  
 JDO  
 J. D. O'Connell & Stevens, Inc., Beaverton, Ore.  
 Station: March 26, 1958  
 DTW 17.90 Time 1508  
 Speed 16 days  
 Printed in U.S.A.  
 1-5 Ratio



Stevens Water Level Recorder — Type F

Chart F-1

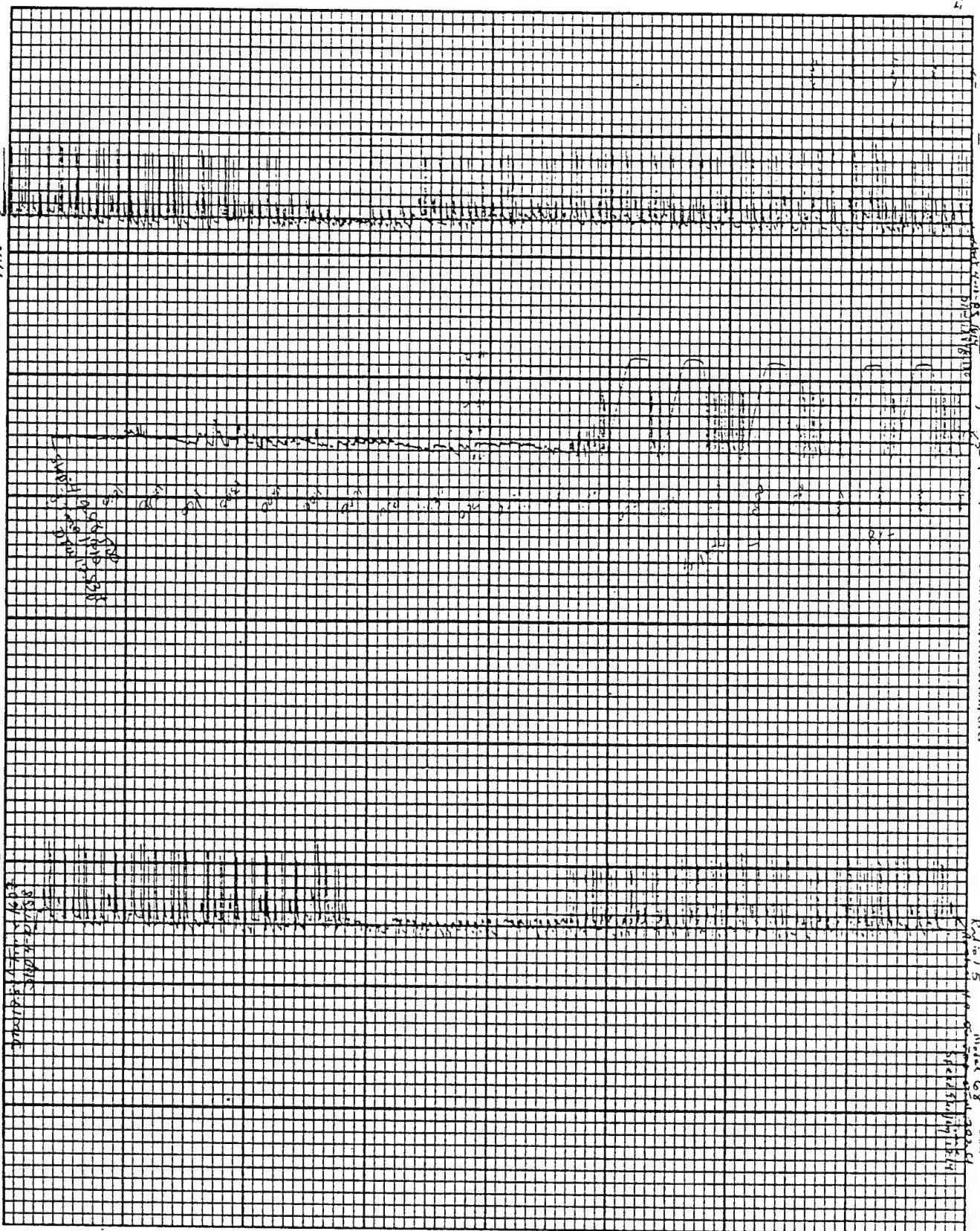
Recorder at the SWLF

QD  
 10/10/41 13 11-4 days

Stevens Water Level Recorder—Type F

5

Chart F-1



Stevens Water Level Recorder South-west Landfill  
 Sheet 100-4 (9-4-40)  
 10/10/41 13 11-4 days

SDO Apr. 15, 1938 DFW - 12966  
 Time 1824

Water rising  
 10/15/41  
 Model Program USA  
 Sheet 100-4 (9-4-40)

Recorder at the SWLF



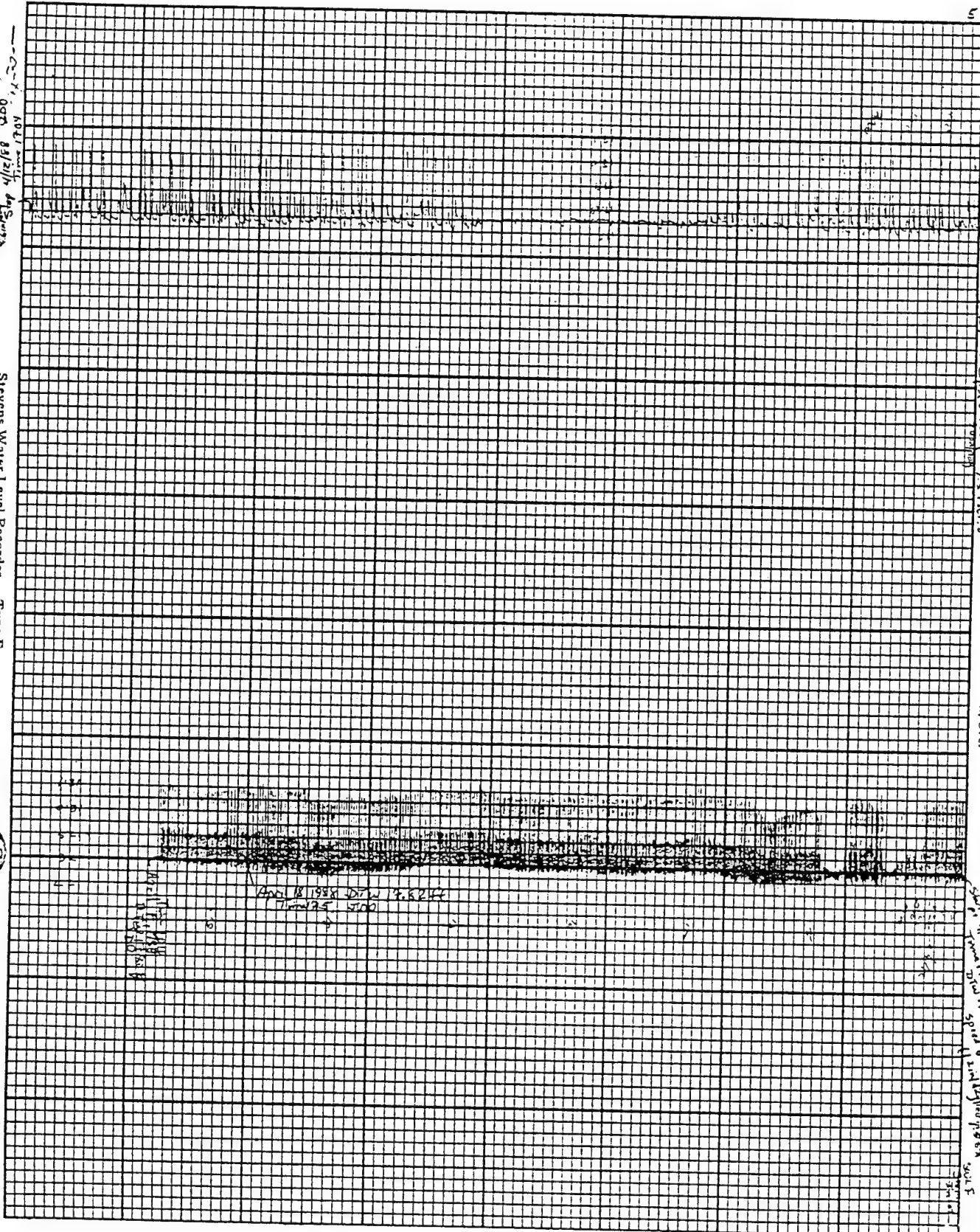
01415  
591

NOT RECORDED  
0000 03/21/74 445 PM  
0000 03/21/74 445 PM

Stevens Water Level Recorder — Type F



Chart P-1



SWLF Stevens Water Level Recorder April 11, 1968 17:15 PM  
SWLF Stevens Water Level Recorder April 11, 1968 17:15 PM  
SWLF Stevens Water Level Recorder April 11, 1968 17:15 PM  
SWLF Stevens Water Level Recorder April 11, 1968 17:15 PM

Recorder at the SWLF

Printed in U.S.A.

### **Stevens Water Level Recorder — Type F**



**Chart F-1**

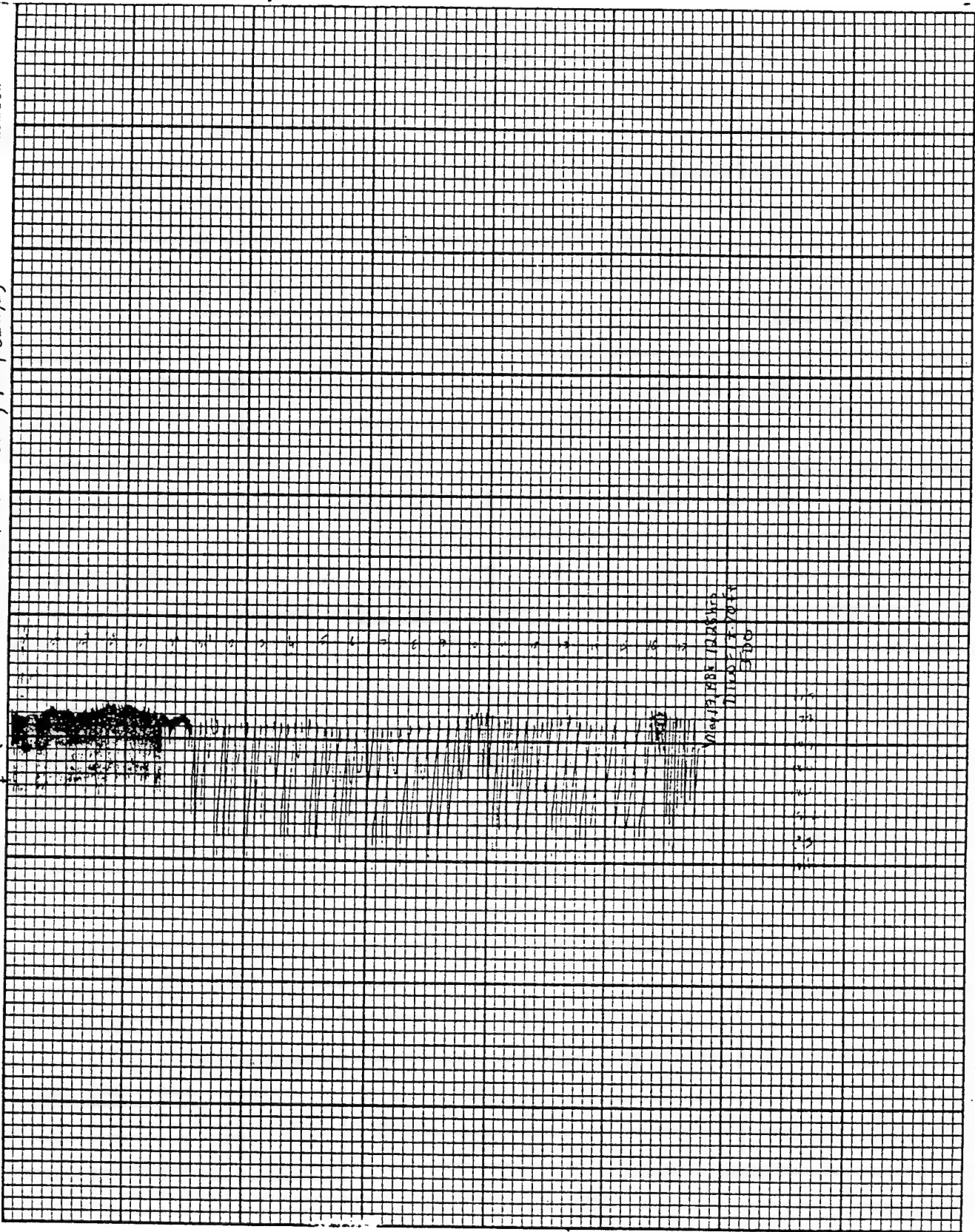
Recorder at the SWLF



Stevens Water Level Recorder SWLF April 24, 1988 DRW 17 ft 9.5 inches JDO  
Time 11:39 Shephard & Stevens, Inc., Beaverton, Ore.

32.1 in Spad / 0.3 in / day  
1:5 ratio

Printed in USA

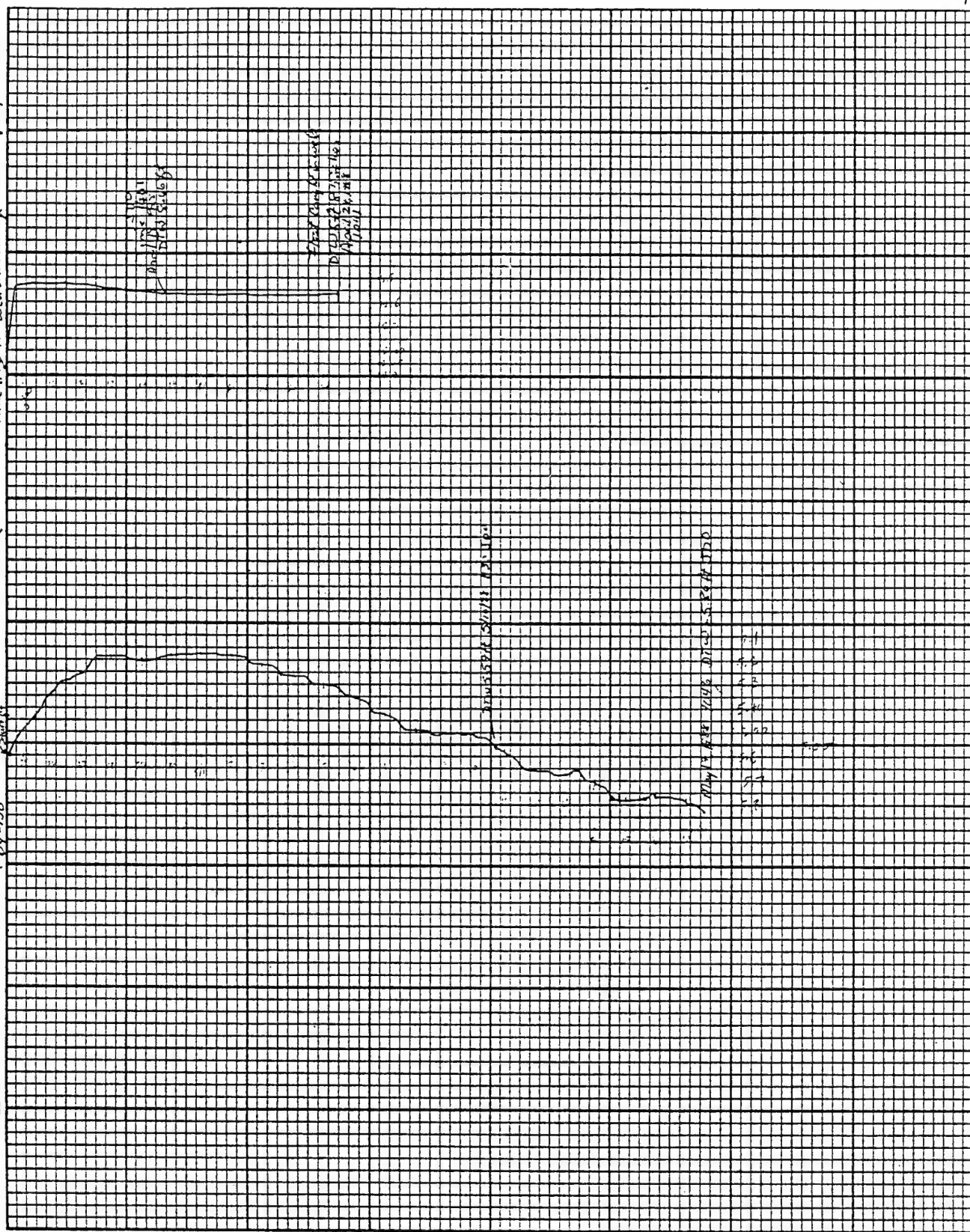


Recorder at the SWLF

Stevens Water Level Recorder — Type F

Chart F-1

132 days  
Well  
oil  
Sunday April 24, 1988 D T W S F E S and  
1:30 current & steel tests, Mtn. Kimberlton Ore.  
water  
first



Monitor well 04-150

[illegible]

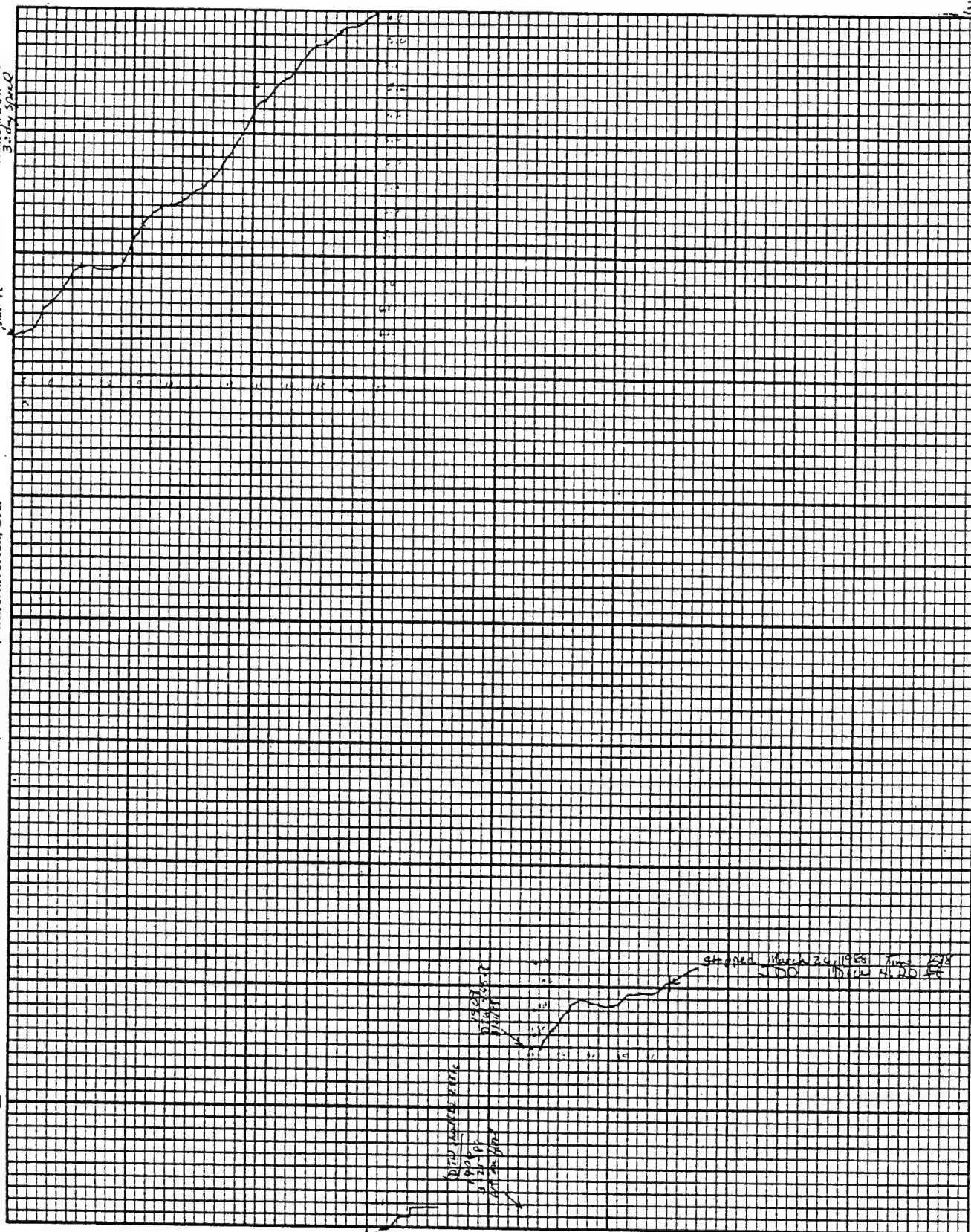
Stevens Water Level Recorder — Type F

### Chart F-1



West Ramp well 04-150 March 4, 1968 Friday DTW 6.3578 Ratio  
 3.0452  
 1968 Printed in U.S.A. 1:5  
 3.0452

Leupold & Stevens, Inc., Beaverton, Ore.



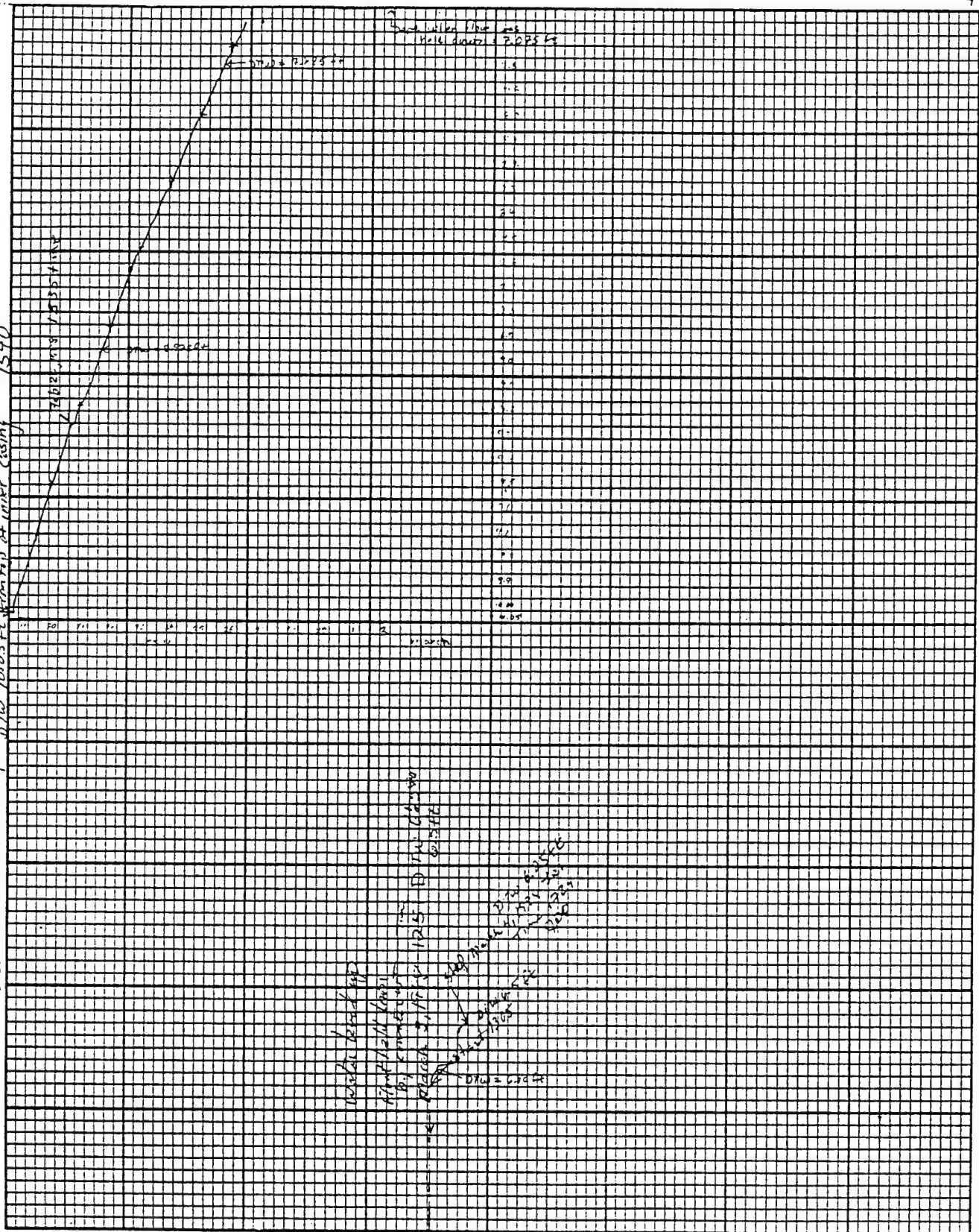
Monitor well 04-150

Sievers Water Level Recorder — Type F

Chart F-1

→ Water level rising  
 Well No. 04-150 West 27th St. & 15th St.  
 Feb 18, 1958  
 Shot pint 32 day speed Time 1540  
 Peaverton, Ore.  
 1540

Printed in U.S.A.



Monitor well 04-150

Feb. 20, 1988  
Portland, USA  
Rat 10 1.5

Water level rising  
West Storm Inlet Recorder  
West Road

Time 1235  
Stevens, Inc., Beaverton, Ore.

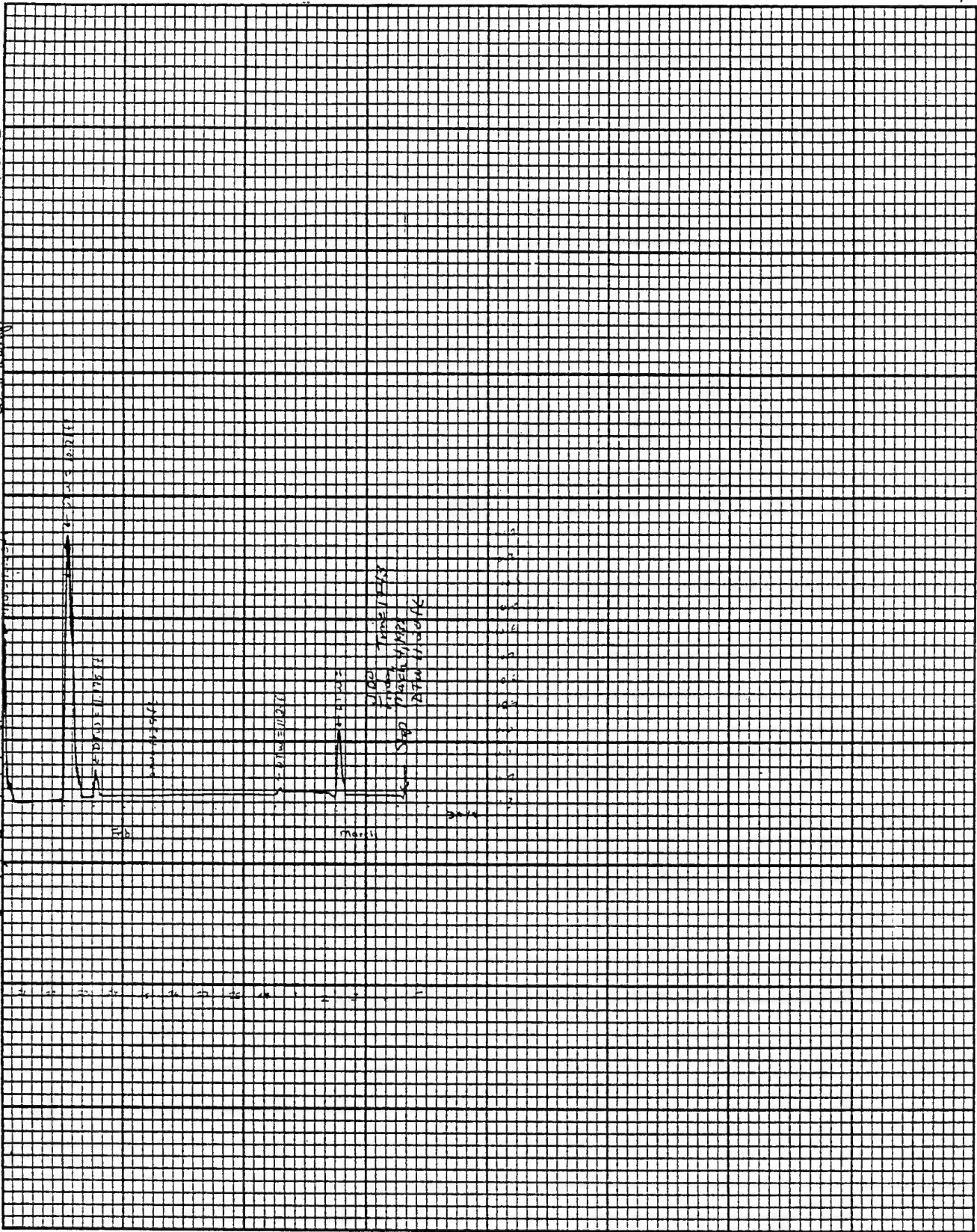
DTW 11.00ft  
1d 189gould & Stevens, Inc.

Jen Olander  
32da, sand

Chart F-1



Stevens Water Level Recorder — Type F



Recorder at the WRMP



West Ramp Swim Water Inlet DFW 11.20 ft JDO Ratio 1.5  
 Leupold & Stevens, Inc., Denver, Ore. March 4, 1988 Fri Start Time 1755 → Well 11.20 ft JDO

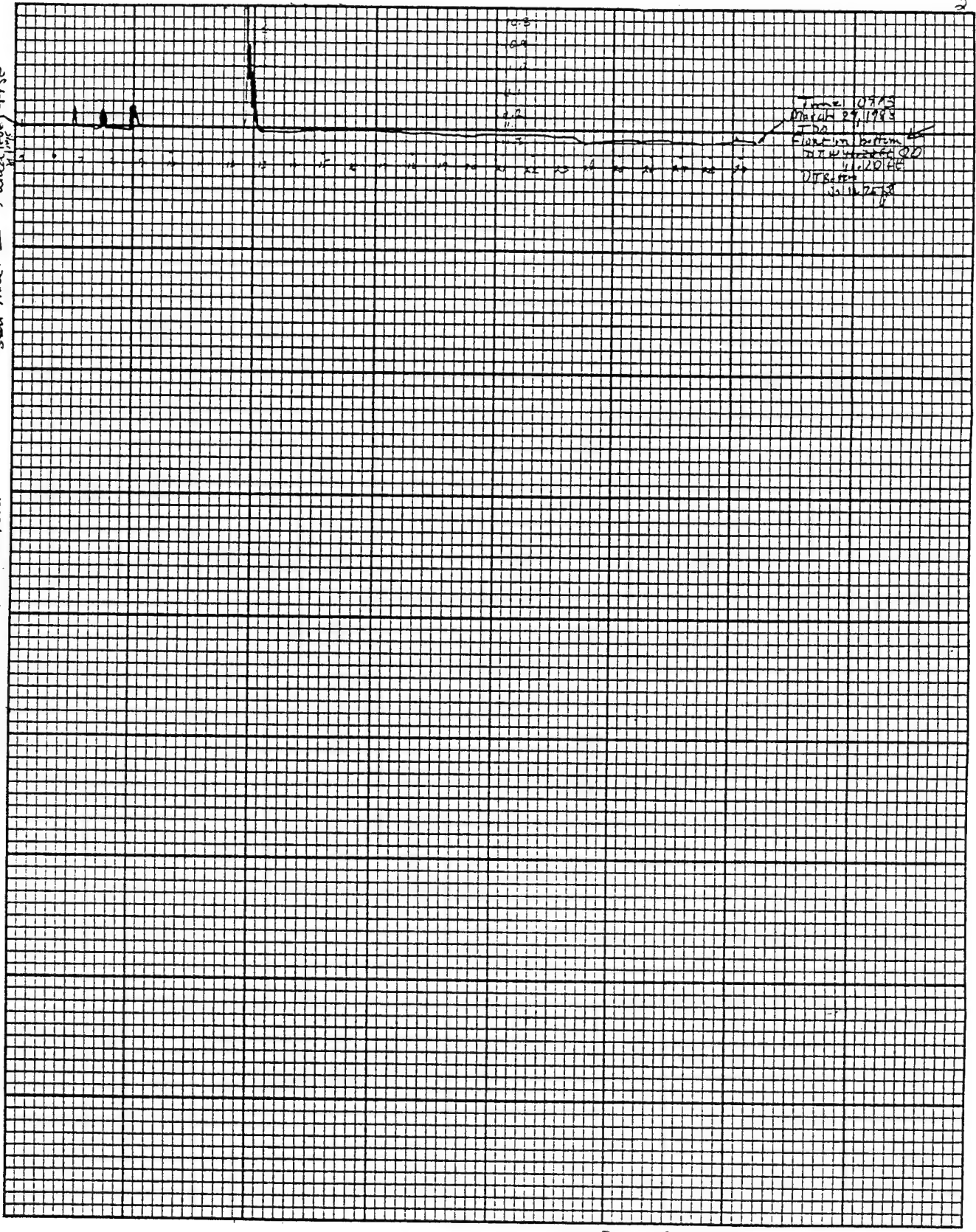


Chart F.1

Stevens Water Level Recorder — Type F

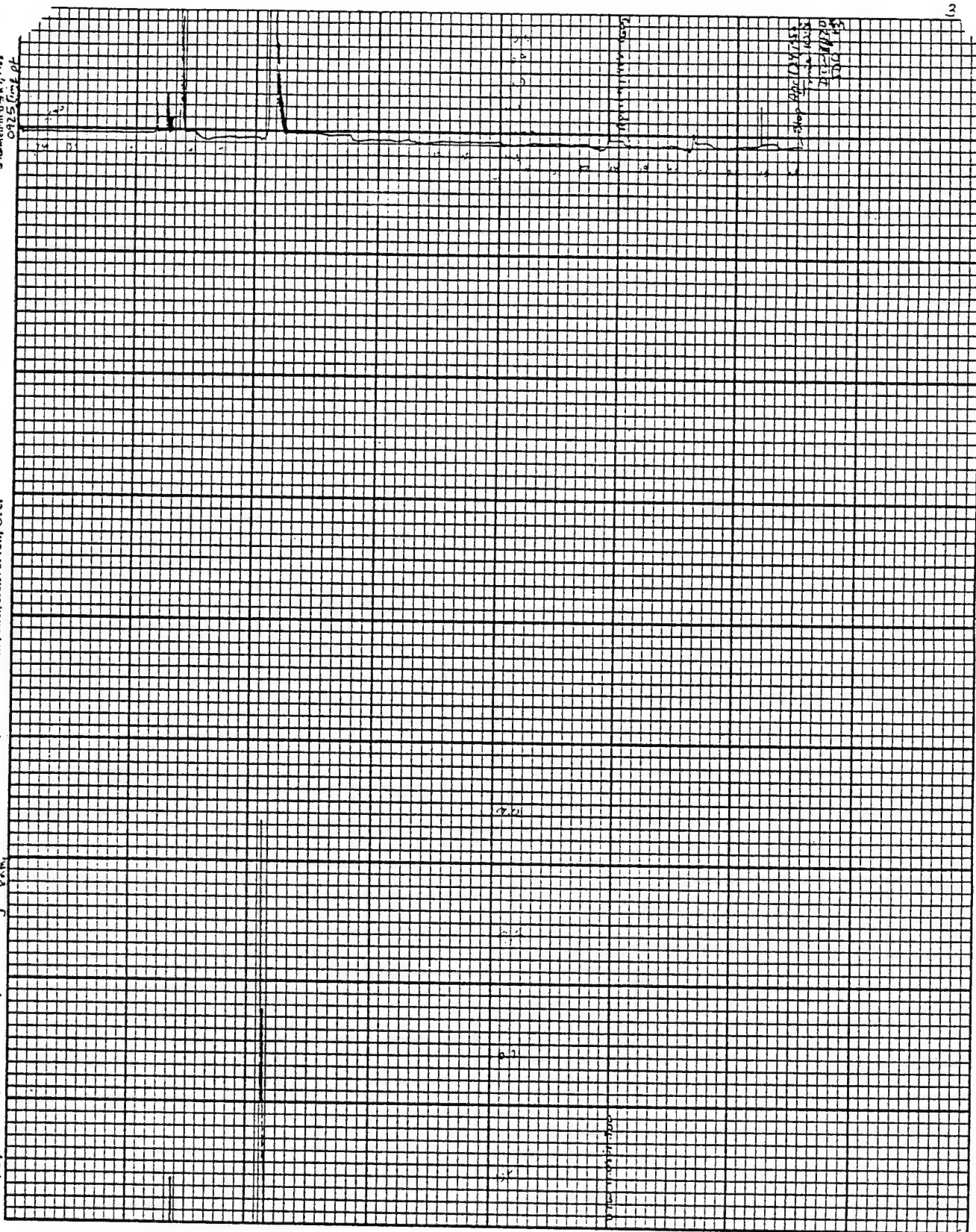
Recorder at the WRMP

Stem Tilt West Bay  
Tide gauge No. 155  
0925 (cont.)

Leupold & Stevens, Inc., Beaverton, Ore.

Fluctuation Station 155  
Tide gauge No. 155

Water rises  
15.00 ft



Chart

Stevens Water Level Recorder — Type F

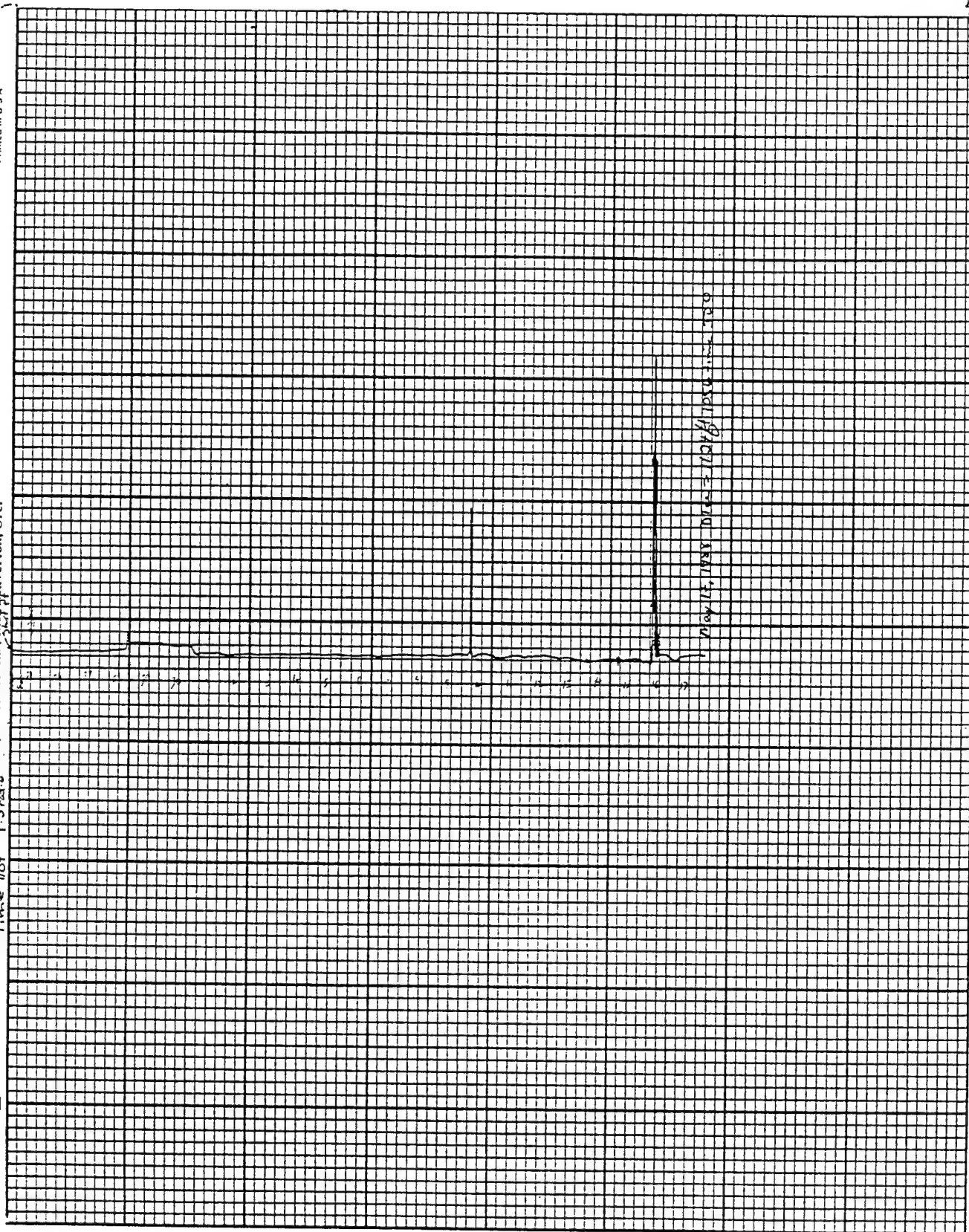


Recorder at the WRMP



→ Water rising  
 April 24, 1953  
 Time 10:37  
 West Ramp 32 days DTS 11 ft 2.0 inch IDO  
 Summ Inlet Leupold & Stevens, Inc. Beaverlton, Ore.

Printed in U.S.A.



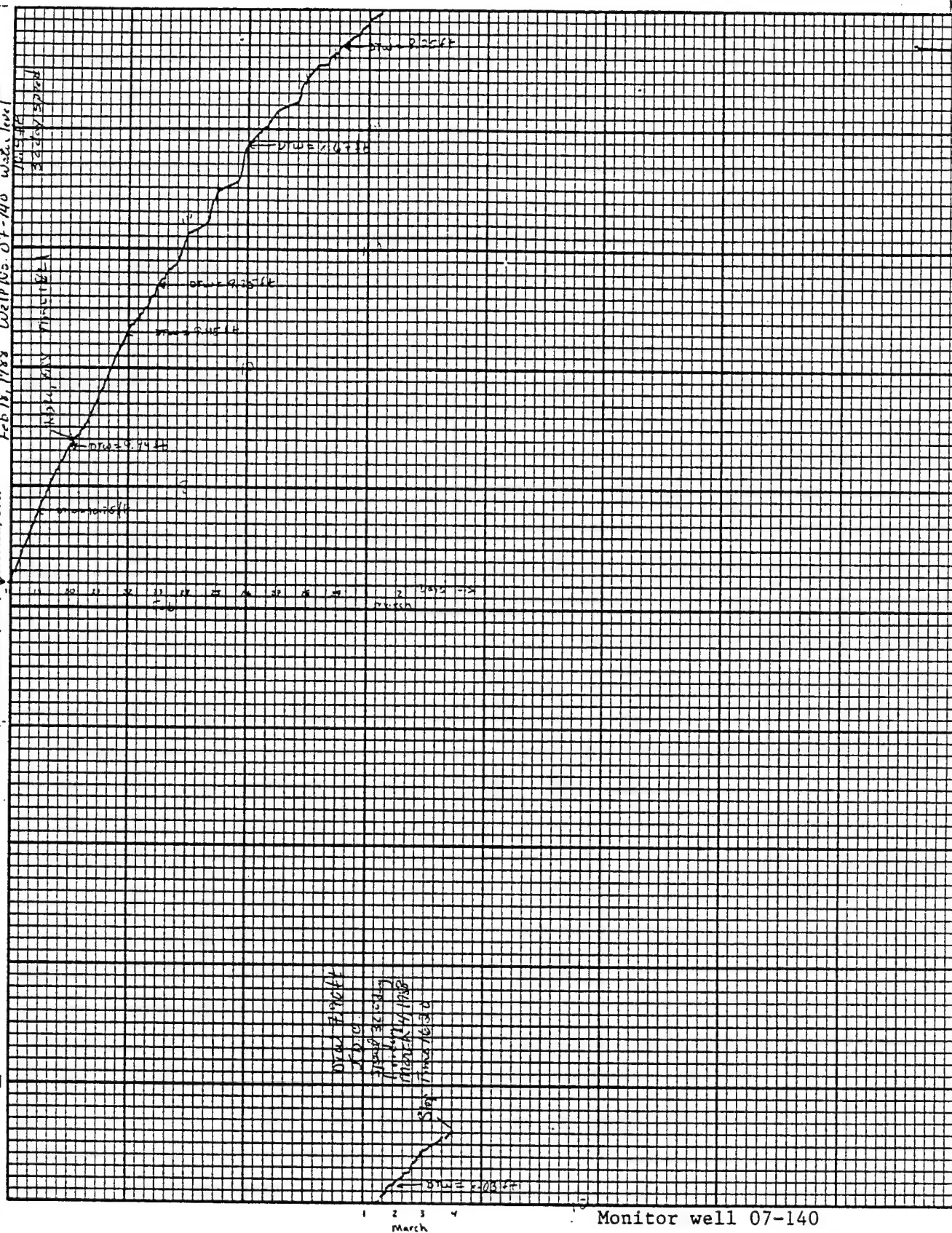
Recorder at the WRMP

Stevens Water Level Recorder — Type F

Chart F-1

4

John C. Lander



(5)

### Stevens Water Level Recorder — Type F



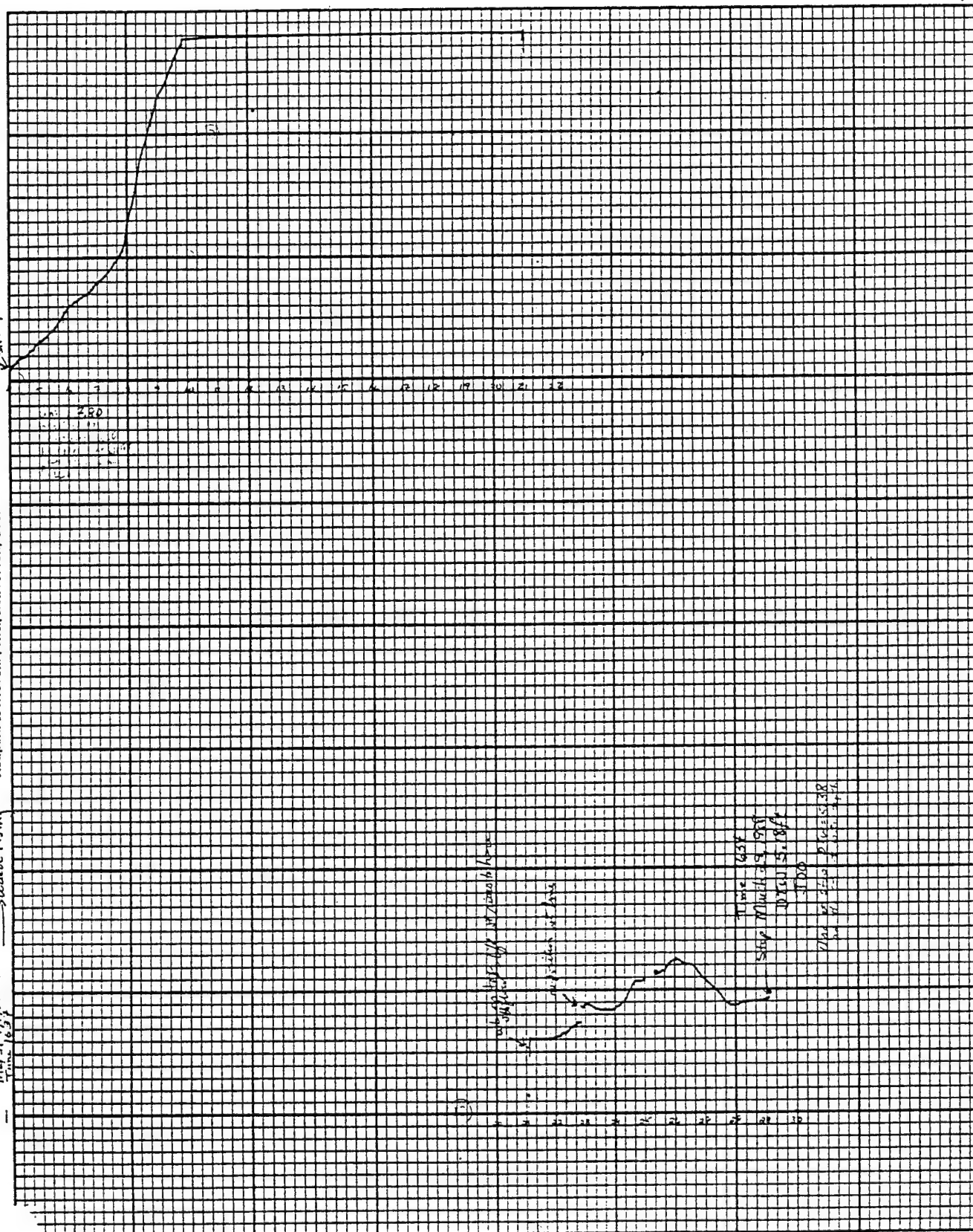
Chart F-1

First dump? 07-140 DTW 7.70 ft  
Mar 11, 4, 1988 Fri → water rising  
Time 1637

**Chart F-1**



Stevens Water Level Recorder — Type F



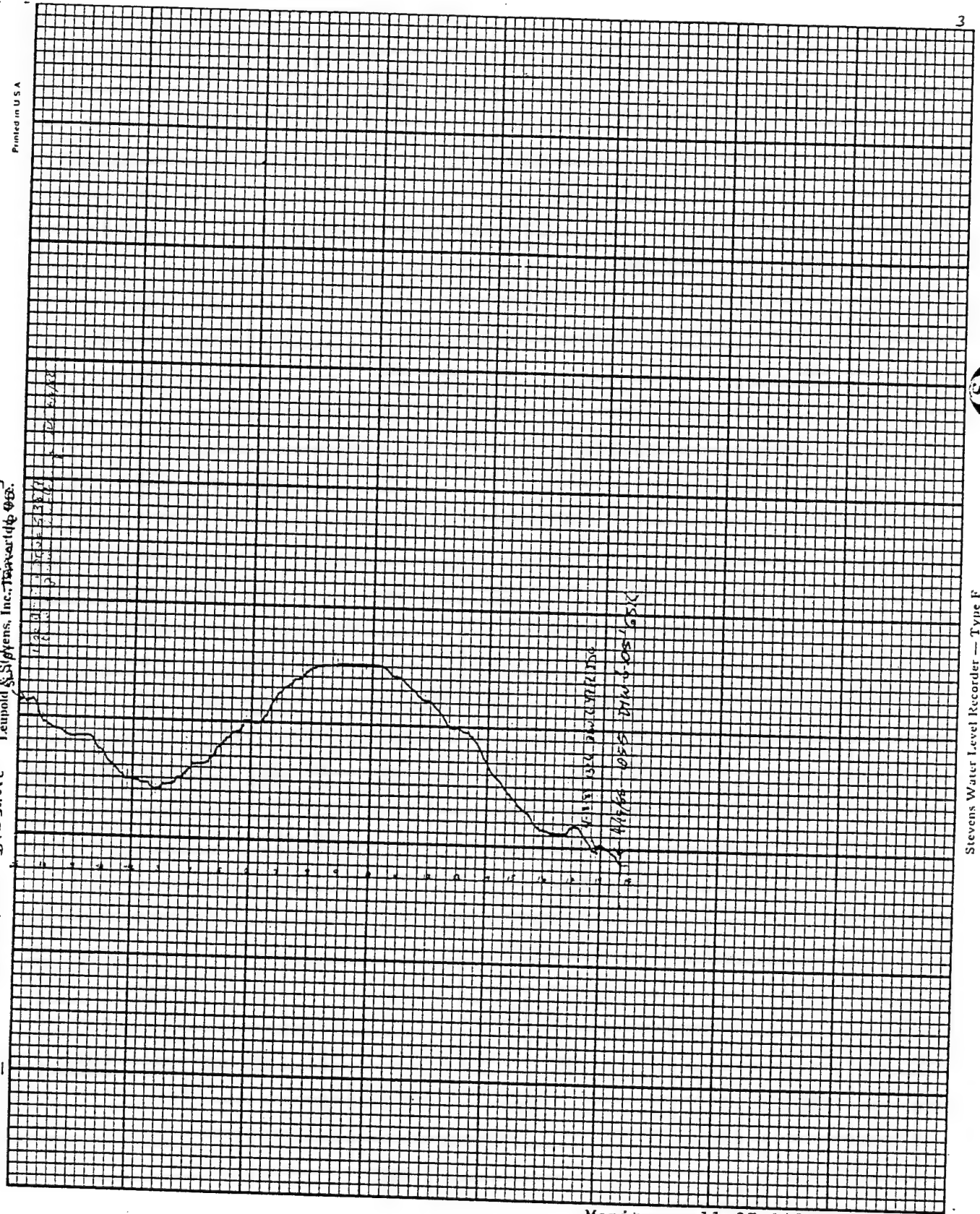
| wt on g/lent in well

E



07-140 Recorder well East Ramp  
 March 29, 1988 DTW 51.8 ft  
 Water rising 300 Speed 32 day 15 ratio  
 Leopold, Stephens, Inc. T-100-100-000

Printed in U.S.A.

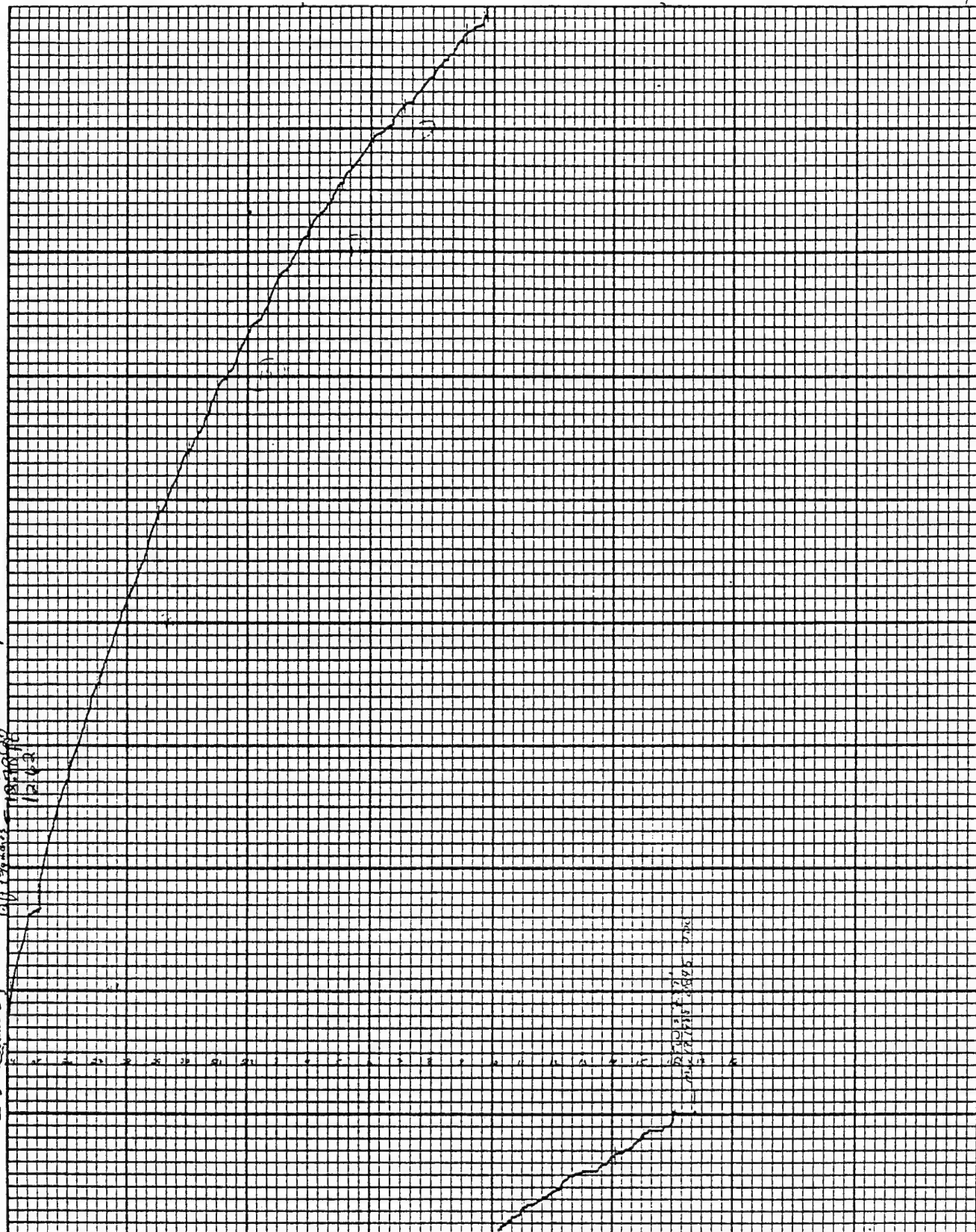


Stevens Water Level Recorder — Type F

Chart F-1

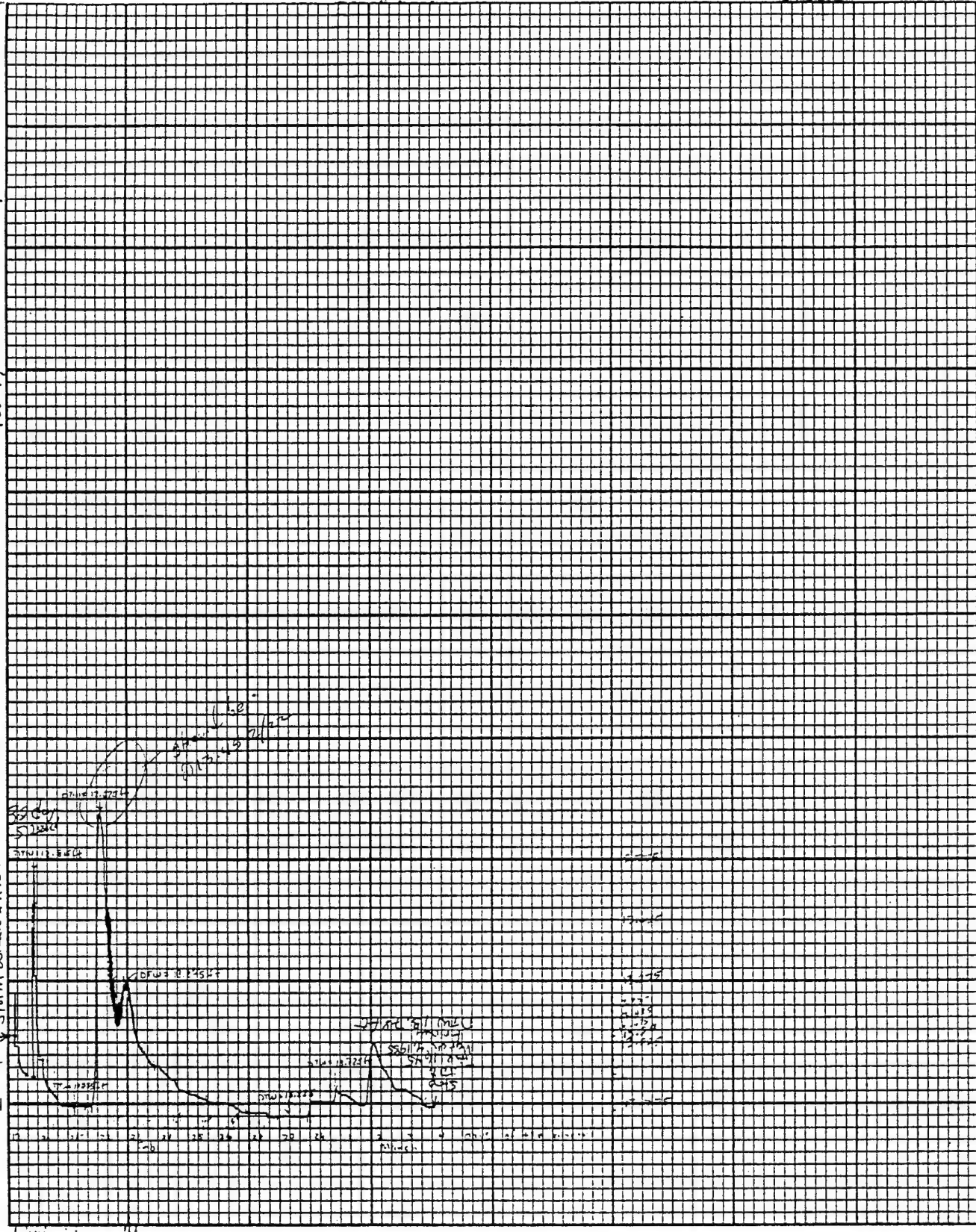
14

Well Recorder 07-140 April 24, 1956 Sunday JDO well on the recharge  
 DTW 228.60 Time of Flow 11:00 AM 12:00 PM 1:00 PM 2:00 PM 3:00 PM 4:00 PM 5:00 PM 6:00 PM 7:00 PM 8:00 PM 9:00 PM 10:00 PM 11:00 PM 12:00 AM  
 12 11 10 9 8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8 9 10 11 12



Monitor well 07-140

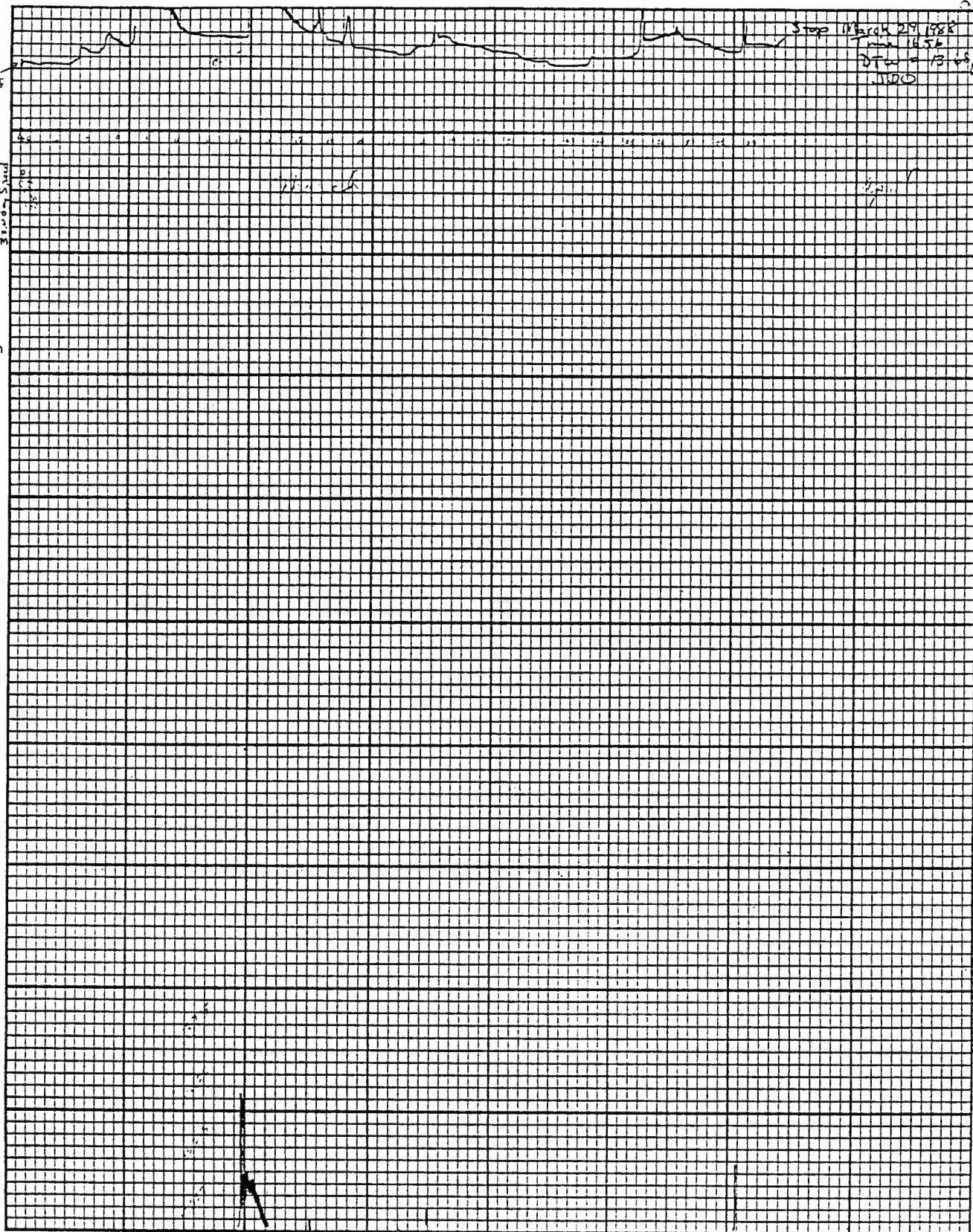
at 1/6 East Ramp Storm Water Inlet Start 1745  
 Jan Olander Ratio 1-5  
 Thompson & Stevens, Inc., Beaverton, Ore.  
 → water level rising  
 Feb. 9, 1988  
 DTW 13.50 ft  
 from top of p/w in U.S.A.



Recorder at the ERMP



Leupold & Stevens, Inc., Beaverlton, Ohio March 4, 1988 Friday Time 1657 hrs 13.78 ft Ratio 7.8  
32007 Seal



Stop March 29, 1988  
Time 1856  
DTW = 13.68  
JRO

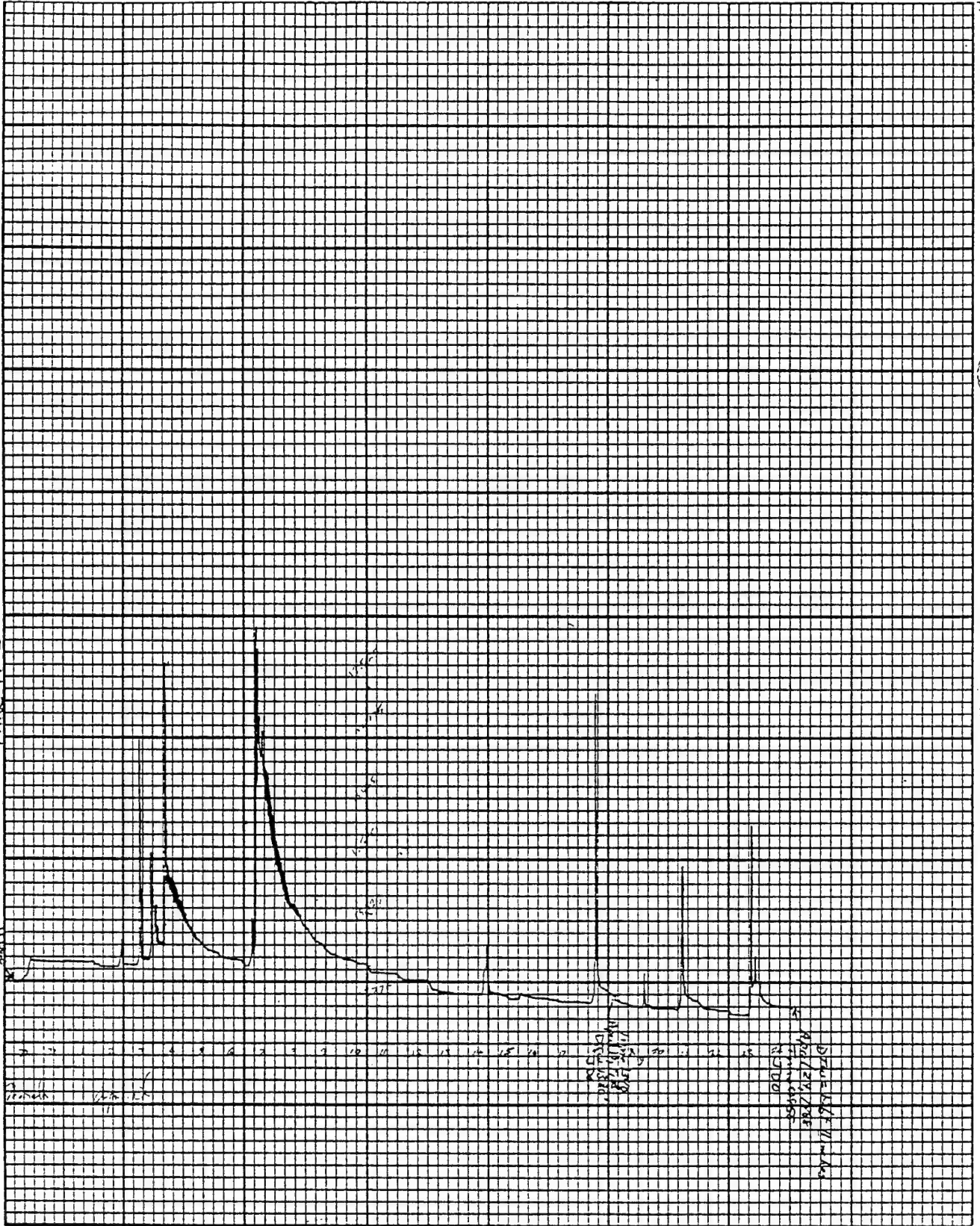
East Ramp Slough P-1

Stevens Water Level Recorder — Type F

(S)

Recorder at the ERMP

East Ramp Storm Inlet JDO  
March 25, 1966, DTW 13.68ft  
→ Water rising 32 dy time  
Laybold & Slayton Inc. Heaverloft, Dye, Pa.

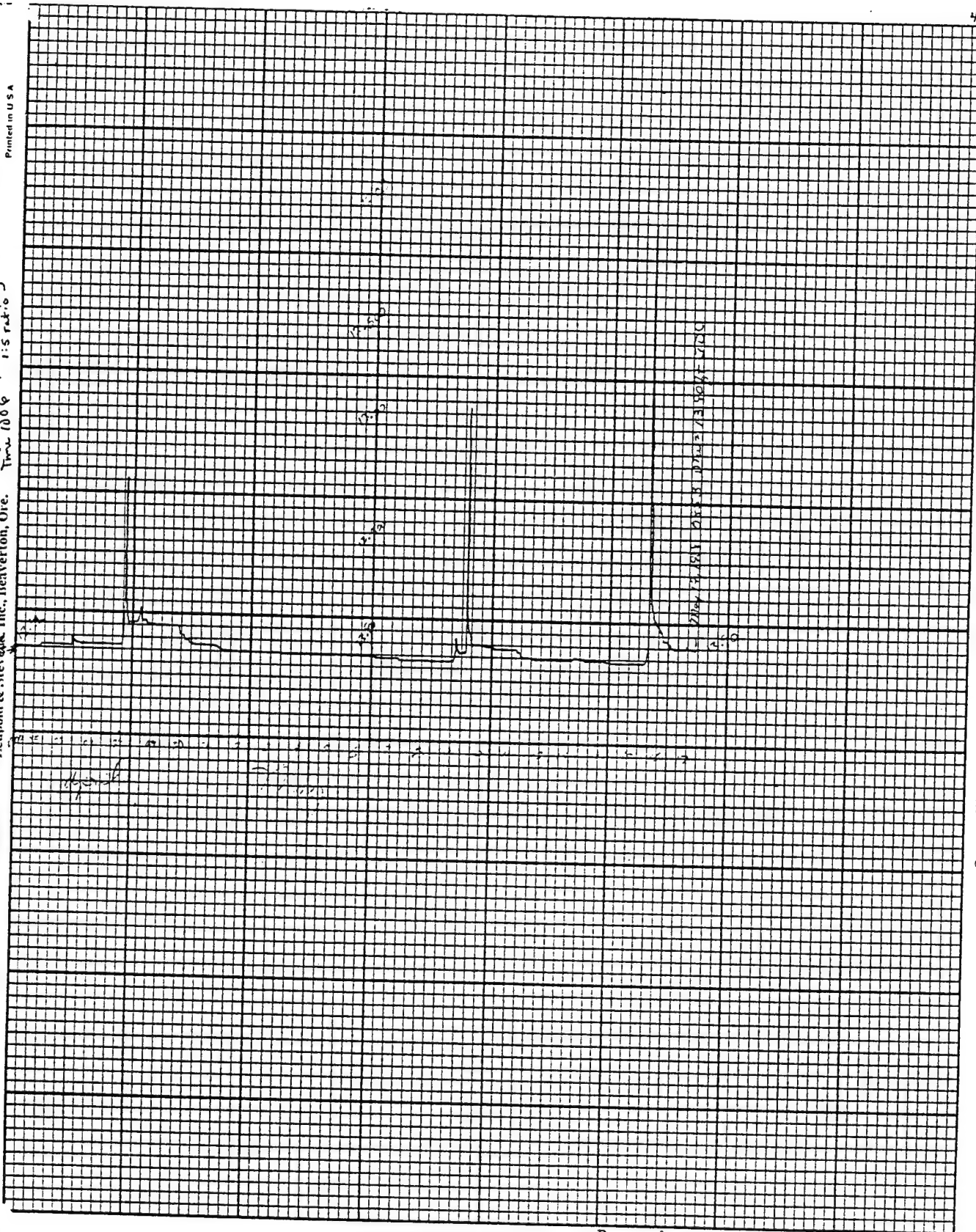


Recorder at the ERMP



East Bend Inlet April 24, 1968 Sun  
 Storm Water Inlet JDO  
 Water rising DTM 13 ft 110 inches Speed 32 mph  
 Leopold & Stevens Inc., Heaverton, Ore. Time 1006 1:5 rat. 6

Printed in U.S.A.



Recorder at the ERMP

Stevens Water Level Recorder — Type F

(S)

Chart F.

## APPENDIX I

### HYDRAULIC CONDUCTIVITY CALCULATIONS

Bouwer and Rice (1976) derived the equation given below for the determination of hydraulic conductivities. An explanation of this equation and its use are presented here. The equation is written as:

$$K = \frac{r_c^2 (\ln R_e/r_w)}{2L} \times \frac{1}{t} \ln \frac{y_o}{y_t}$$

Where,

- K = hydraulic conductivity
- $r_c$  = radius of well casing
- $R_e$  = effective radius over which y is dissipated
- $r_w$  = radius of borehole
- L = length of screen
- t = time
- y = vertical distance between water level in well and equilibrium water table in aquifer

Since K,  $r_c$ ,  $r_w$ ,  $R_e$  and L are constant values for a given well, than the values  $(1/t) \ln y_o/y_t$  must also be constant. Thus, field data should yield a straight line when they are plotted as  $\ln y$  versus t (Bouwer and Rice, 1976). The term  $(1/t) \ln y_o/y_t$  is then obtained from the best-fitting straight line in the plot of  $\ln y$  versus t.

Bouwer and Rice developed from the evaluation of  $R_e$  the following empirical equation relating  $\ln R_e/r_w$  to the geometry of the system:

$$\ln R_e/r_w = \frac{1.1}{\ln (H/r_w)} + \frac{A + B \ln [(D-H)/r_w]}{L/r_w} - 1$$

Where,

- A and B = dimensionless coefficients that are functions of  $L/r_w$
- D = saturated thickness of aquifer
- H = depth from the water table to the bottom of well

Monitoring wells at Selfridge ANGB are assumed to be fully penetrating. This means  $D = H$  and thus, the term  $\ln [(D-H)/r_w]$  cannot be determined. A different empirical equation must be used in this situation:

$$\ln R_e/r_w = \frac{1.1}{\ln H/r_w} + \frac{C}{L/r_w} - 1$$

$C$  = dimensionless coefficient that is a function of  $L/r_w$

One other factor must be taken into consideration for the baildown-recovery tests of Selfridge monitor wells. Since the water is rising in the perforated portion of the well, allowance must be made for the porosity of the sand pack around the screen. This factor is taken into account with the equation:

$$R_e = [r_c^2 + [\text{porosity} (r_w^2 - r_c^2)]^{1/2}]^{1/2}$$

where,

$r_c$  = radius of well casing

$r_w$  = radius of borehole

porosity = percent porosity of sand pack

Values for  $H$ ,  $D$ ,  $L$ ,  $r_c$  and  $r_w$  were obtained from field observations. Specifications for 4 1/4 inch inner diameter augers yields a borehole diameter of 7 5/8 inches. This results in a borehole radius ( $r_w$ ) of 0.317 ft. The inner casing radius ( $r_c$ ) is 0.083 ft (for 2 inch diameter wells). After solving the equation that takes into consideration the porosity of the well screen sand pack, the radius of the casing ( $r_c$ ) becomes 0.187 ft. An estimated porosity of 30 percent was used for the sand pack around well screens. The time versus recovery data was plotted on semi-log paper. A best fitting line was then drawn and the slope calculated. This slope was then used for the term  $(1/t) \ln y_o/y_t$  in the hydraulic conductivity equation. A computer program was developed to solve the equations for estimated hydraulic conductivity ( $K$ ). The semi-log graphs are presented in Appendix E.

According to Bouwer and Rice (1976), their method for determining hydraulic conductivity is accurate to within 10 to 25 percent. The accuracy depends on how much of the well below the water table is perforated. Hydraulic

conductivities at Selfridge range from  $2.636 \times 10^{-3}$  cm/sec to  $8.761 \times 10^{-6}$  cm/sec. The values calculated for all wells tested are given in Table 3-18.

Table I-1  
 Baildown Test Data Used for  
 Determining Hydraulic Conductivity  
 IRP Stage 2  
 Selfridge ANGB, Michigan

WELL	H	r <sub>c</sub>	D	L	C	r	SLOPE	H/r	ln H/r	L/r	ln(Re/r)	K	K
NUMBER	(ft)	(ft)	(ft)	(ft)		(ft)	(/sec)	W	W	W	W	(ft/s)	(cm/s)
01-122	19.94	0.187	19.94	20	3	0.317	0.0104	62.902	4.142	63.091	3.193	2.903E-05	8.850E-04
01-123	17.54	0.187	17.54	20	3	0.317	0.000154	55.331	4.013	63.091	3.109	4.186E-07	1.276E-05
01-124	20.21	0.187	20.21	20	3	0.317	0.000455	63.754	4.155	63.091	3.202	1.274E-06	3.882E-05
01-125	21.31	0.187	21.31	20	3	0.317	0.000141	67.224	4.208	63.091	3.237	3.990E-07	1.216E-05
01-156	14.62	0.187	14.62	10	2	0.317	0.000182	46.120	3.831	31.546	2.853	9.079E-07	2.767E-05
01-257	38.27	0.187	38.27	10	2	0.317	0.000043	120.726	4.794	31.546	3.414	2.567E-07	7.824E-06
01-158	-----	-----	-----	---	-	-----	-----	-----	-----	-----	-----	-----	-----
01-259	4.52	0.187	4.52	10	2	0.317	0.000122	14.259	2.657	31.546	2.095	4.469E-07	1.362E-05
01-160	15.04	0.187	15.04	10	2	0.317	0.000128	47.445	3.860	31.546	2.870	6.424E-07	1.958E-05
01-261	32.37	0.187	32.37	10	2	0.317	0.000041	102.114	4.626	31.546	3.320	2.380E-07	7.255E-06
01-162	12.08	0.187	12.08	10	2	0.317	0.000266	38.107	3.640	31.546	2.735	1.272E-06	3.878E-05
01-263	14.85	0.187	14.85	10	2	0.317	0.0000113	46.845	3.847	31.546	2.862	5.656E-08	1.724E-06
02-164	13.28	0.187	13.28	10	2	0.317	0.0004	41.893	3.735	31.546	2.794	1.954E-06	5.956E-05
02-165	14.56	0.187	14.56	10	2	0.317	0.00015	45.931	3.827	31.546	2.850	7.476E-07	2.279E-05
02-166	19.92	0.187	19.92	10	2	0.317	0.0000946	62.839	4.141	31.546	3.039	5.026E-07	1.532E-05
03-116	24.21	0.187	24.21	20	3	0.317	0.0298	76.372	4.336	63.091	3.319	8.648E-05	2.636E-03
03-117	23.22	0.187	23.22	20	3	0.317	0.0138	73.249	4.294	63.091	3.292	3.972E-05	1.211E-03
03-118	23.32	0.187	23.32	20	3	0.317	0.00122	73.565	4.298	63.091	3.295	3.514E-06	1.071E-04
04-111	16.25	0.187	16.25	20	3	0.317	0.00032	51.262	3.937	63.091	3.059	8.556E-07	2.608E-05
04-112	21.31	0.187	21.31	20	3	0.317	0.000365	67.224	4.208	63.091	3.237	1.033E-06	3.148E-05
04-113	10.22	0.187	10.22	20	3	0.317	0.000122	32.240	3.473	63.091	2.745	2.928E-07	8.925E-06
04-115	9.43	0.187	9.43	20	3	0.317	0.00104	29.748	3.393	63.091	2.690	2.446E-06	7.454E-05
04-148	17.85	0.187	17.85	10	2	0.317	0.000297	56.309	4.031	31.546	2.974	1.544E-06	4.707E-05
04-249	15.26	0.187	15.26	10	2	0.317	0.0000717	48.139	3.874	31.546	2.879	3.609E-07	1.100E-05

01 - Southwest Landfill  
 02 - Fire Training Area-2  
 03 - Fire Training Area-1  
 04 - West Ramp

1. Rapid recharge to the well prevented collection of valid test data.

Table I-1 (continued)  
 Baildown Test Data Used for  
 Determining Hydraulic Conductivity  
 IRP Stage 2  
 Selfridge ANGB, Michigan

WELL	H	r	c	d	L	C	r	SLOPE	H/r	ln H/r	L/r	ln(Re/r )	K	K
NUMBER	(ft)	(ft)	(ft)	(ft)	(ft)		(ft)	(/sec)	W	W	W	W	(ft/s)	(cm/s)
04-150	17.92	0.187	17.92	10	2	0.317	0.0000959	56.530	4.035	31.546	2.976	4.990E-07	1.521E-05	
04-251	30.90	0.187	30.90	10	2	0.317	0.000081	97.476	4.580	31.546	3.294	4.665E-07	1.422E-05	
04-152	19.87	0.187	19.87	10	2	0.317	0.000142	62.681	4.138	31.546	3.037	7.541E-07	2.299E-05	
04-253	19.29	0.187	19.29	10	2	0.317	0.000111	60.852	4.108	31.546	3.020	5.861E-07	1.786E-05	
04-154	11.09	0.187	11.09	10	2	0.317	0.000374	34.984	3.555	31.546	2.682	1.754E-06	5.346E-05	
04-255	30.96	0.187	30.96	10	2	0.317	0.0000772	97.666	4.582	31.546	3.295	4.448E-07	1.356E-05	
05-105	22.96	0.187	22.96	20	3	0.317	0.000625	72.429	4.283	63.091	3.285	1.795E-06	5.471E-05	
05-107	20.36	0.187	20.36	20	3	0.317	0.000192	64.227	4.162	63.091	3.207	5.383E-07	1.641E-05	
05-130	12.29	0.187	12.29	10	2	0.317	0.000527	38.770	3.658	31.546	2.746	2.530E-06	7.713E-05	
05-231	36.00	0.187	36.00	10	2	0.317	0.0000278	113.565	4.732	31.546	3.380	1.643E-07	5.008E-06	
05-132	8.19	0.187	8.19	10	2	0.317	0.000195	25.836	3.252	31.546	2.490	8.488E-07	2.587E-05	
05-233	38.35	0.187	38.35	10	2	0.317	0.0000188	120.978	4.796	31.546	3.416	1.123E-07	3.422E-06	
05-134	8.60	0.187	8.60	10	2	0.317	0.0000913	27.129	3.301	31.546	2.521	4.024E-07	1.227E-05	
05-235	24.15	0.187	24.15	10	2	0.317	0.000141	76.183	4.333	31.546	3.152	7.771E-07	2.369E-05	
05-167	7.81	0.187	7.81	10	2	0.317	0.0000906	24.637	3.204	31.546	2.459	3.895E-07	1.187E-05	
06-108	19.23	0.187	19.23	20	3	0.317	0.000162	60.662	4.105	63.091	3.170	4.489E-07	1.368E-05	
06-109	24.81	0.187	24.81	20	3	0.317	0.00038	78.265	4.360	63.091	3.335	1.108E-06	3.377E-05	
06-110	22.87	0.187	22.87	20	3	0.317	0.00319	72.145	4.279	63.091	3.283	9.154E-06	2.790E-04	
06-144	14.83	0.187	14.83	10	2	0.317	0.000684	46.782	3.846	31.546	2.862	3.422E-06	1.043E-04	
06-245	28.88	0.187	28.88	10	2	0.317	0.0000505	91.104	4.512	31.546	3.255	2.874E-07	8.761E-06	
06-146	11.86	0.187	11.86	10	2	0.317	0.000607	37.413	3.622	31.546	2.724	2.891E-06	8.812E-05	
06-247	22.92	0.187	22.92	10	2	0.317	0.00111	72.303	4.281	31.546	3.122	6.058E-06	1.847E-04	

04 - West Ramp  
 05 - Tucker Creek Landfill  
 06 - Northwest Landfill

Table I-1 (continued)  
 Baildown Test Data Used for  
 Determining Hydraulic Conductivity  
 IRP Stage 2  
 Selfridge ANGB, Michigan

WELL	H	r <sub>c</sub>	D	L	C	r	SLOPE	H/r	ln H/r	L/r	ln(Re/r)	W	K	K
NUMBER	(ft)	(ft)	(ft)	(ft)		(ft)	(/sec)						(ft/s)	(cm/s)
07-102	21.51	0.187	21.51	20	3	0.317	0.000349	67.855	4.217	63.091	3.243	3.243	9.894E-07	3.016E-05
07-103	19.31	0.187	19.31	20	3	0.317	0.000349	60.915	4.109	63.091	3.172	3.172	9.679E-07	2.950E-05
07-104	10.91	0.187	10.91	20	3	0.317	0.000617	34.416	3.539	63.091	2.790	2.790	1.505E-06	4.587E-05
07-136	12.70	0.187	12.70	10	2	0.317	0.000753	40.063	3.690	31.546	2.767	2.767	3.642E-05	1.110E-03
07-237	28.27	0.187	28.27	10	2	0.317	0.000165	89.180	4.491	31.546	3.243	3.243	9.356E-07	2.852E-05
07-138	11.23	0.187	11.23	10	2	0.317	0.000222	35.426	3.567	31.546	2.690	2.690	1.044E-06	3.183E-05
07-239	37.89	0.187	37.89	10	2	0.317	0.000103	119.527	4.784	31.546	3.409	3.409	6.139E-07	1.871E-05
07-140	10.19	0.187	10.19	10	2	0.317	0.000197	32.145	3.470	31.546	2.629	2.629	9.055E-07	2.760E-05
07-241	19.35	0.187	19.35	10	2	0.317	0.000164	61.041	4.112	31.546	3.022	3.022	8.665E-07	2.641E-05
07-142	12.71	0.187	12.71	10	2	0.317	0.00094	40.095	3.691	31.546	2.767	2.767	4.548E-06	1.386E-04
07-243	29.58	0.187	29.58	10	2	0.317	0.00031	93.312	4.536	31.546	3.269	3.269	1.772E-06	5.401E-05
08-126	6.80	0.187	6.80	10	2	0.317	0.00032	21.451	3.066	31.546	2.369	2.369	1.325E-06	4.039E-05
08-127	17.00	0.187	17.00	10	2	0.317	0.00042	53.628	3.982	31.546	2.944	2.944	2.162E-06	6.590E-05
08-128	4.71	0.187	4.71	10	2	0.317	0.000198	14.858	2.699	31.546	2.123	2.123	7.350E-07	2.240E-05
08-129	14.37	0.187	14.37	10	2	0.317	0.000181	45.331	3.814	31.546	2.842	2.842	8.995E-07	2.742E-05

07 - East Ramp  
 08 - Base Coal Storage Pile



Sell, Inc. ANCE NT

Southwest Landfill

W-22

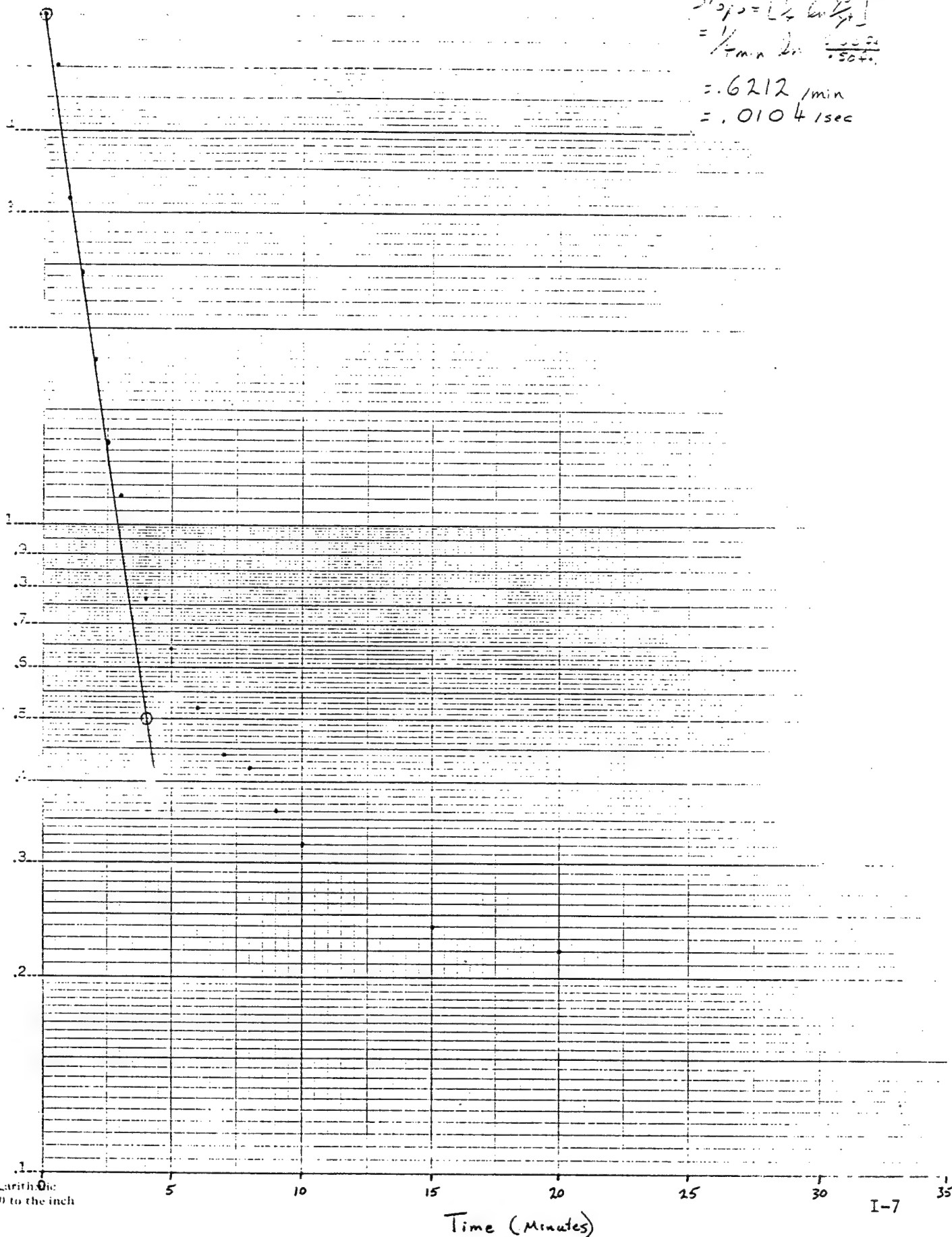
Tested 1-22-88

$$\text{Slope} = \left[ \frac{1}{2} \ln \frac{V_0}{V_t} \right]$$

$$= \frac{1}{t_{min}} \ln \frac{V_0 - V_{eq}}{V_t - V_{eq}}$$

$$= .6212 / \text{min}$$

$$= .0104 / \text{sec}$$



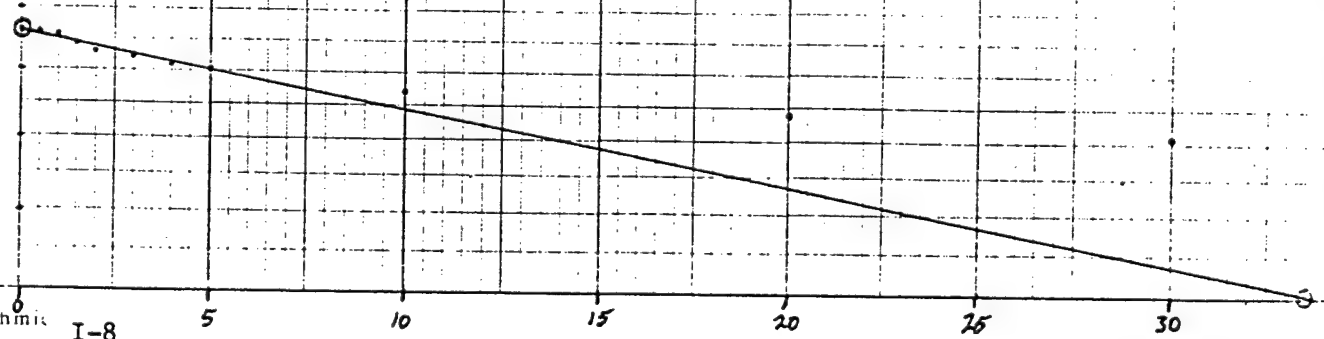
Se. fridge ANG Base 11-  
 Southwest hand 11  
 N-23  
 Tested 1-21-88  
 Slope =  $\left[ \frac{1}{4} L \frac{d}{dt} \right]$   
 =  $\frac{1}{33.5 \text{ min}} \times \frac{13.63}{10.00}$   
 = .00925 /min  
 = .000154 /sec

y<sup>+</sup> (Feet)

Semi-Logarithmic

I-8

Time (Minutes)



100

Self-heal / N55-15

South coast road

U-2-

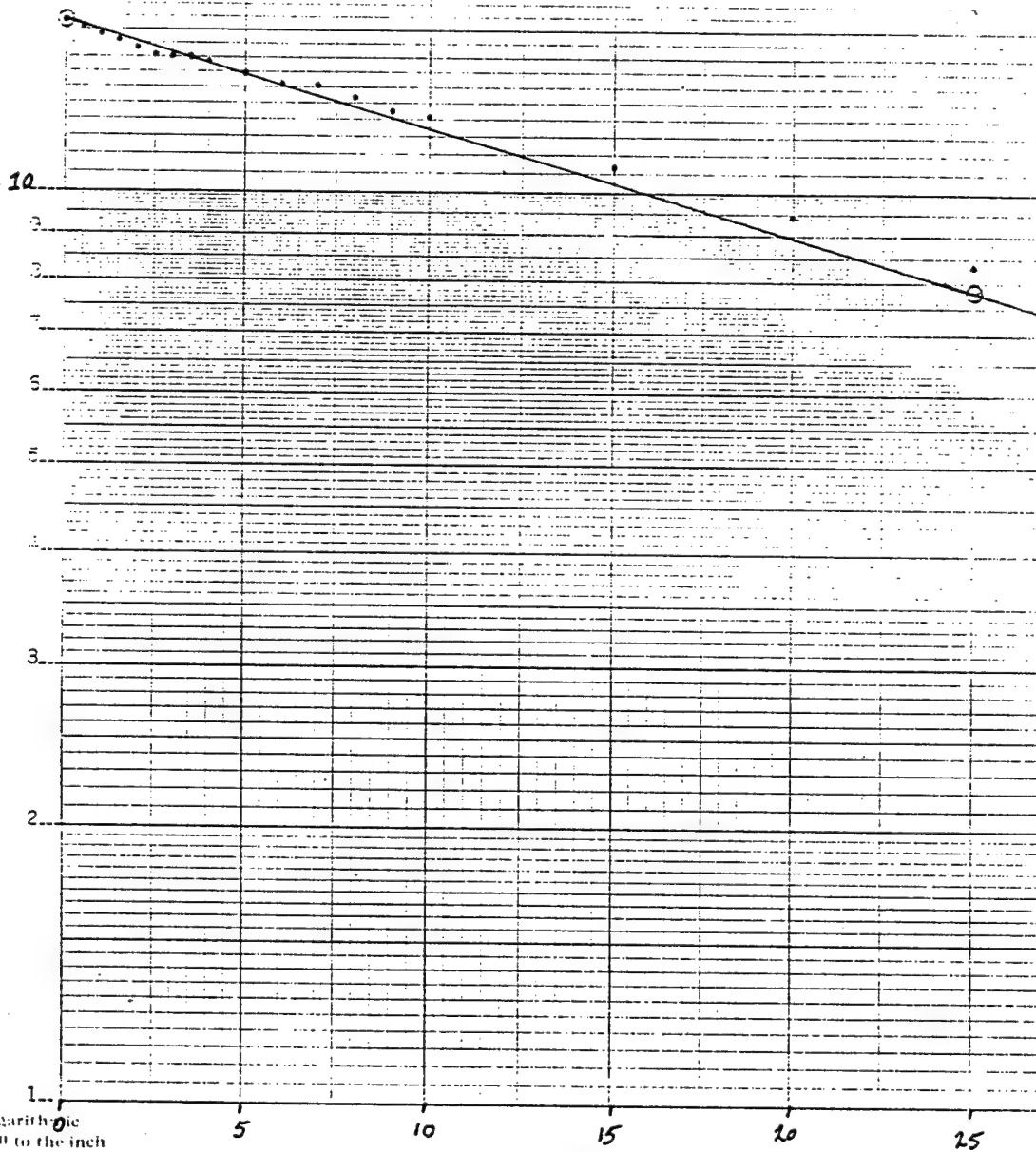
Tested: 1-21-88

Slope = 1/4 in./in.

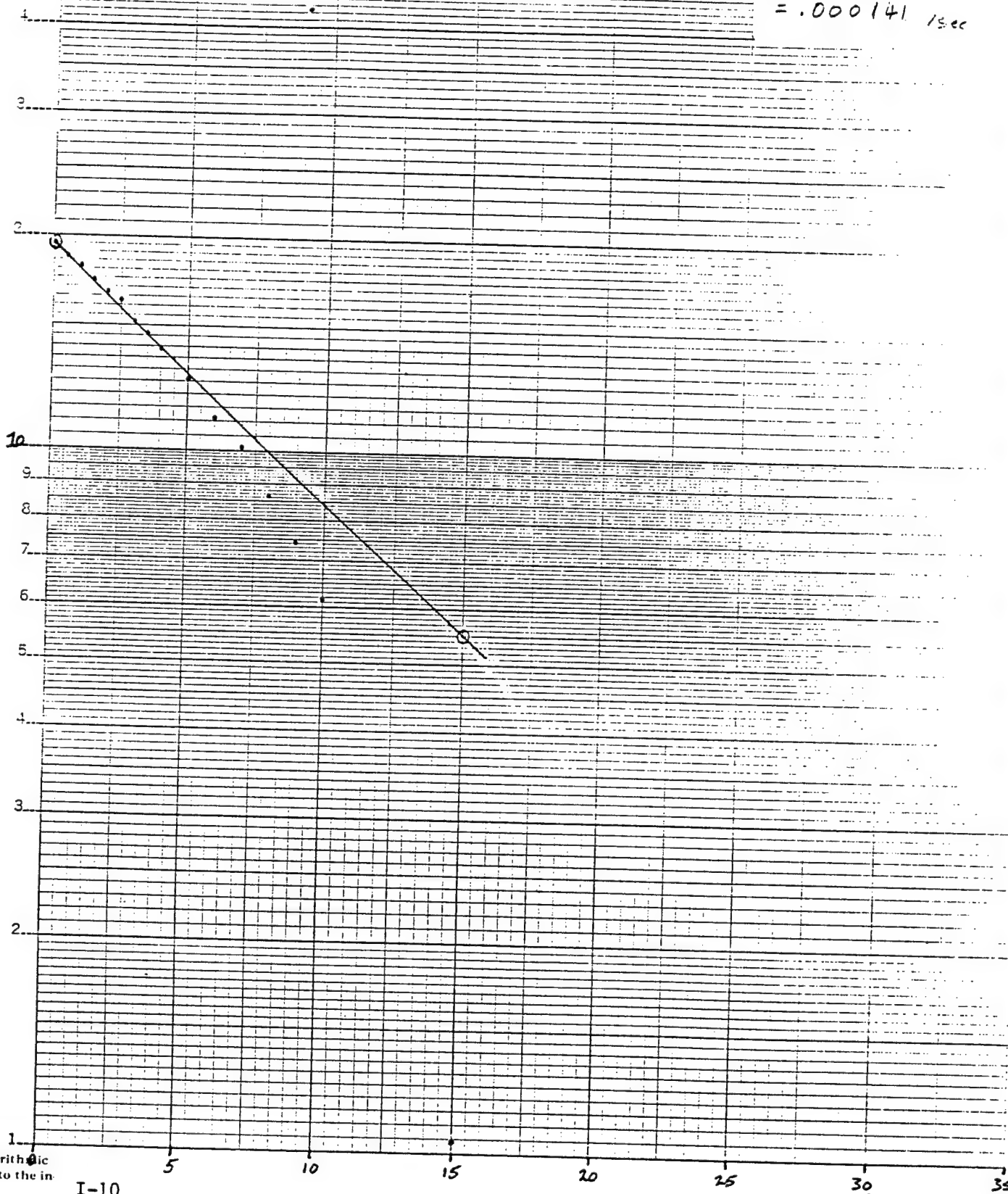
$\frac{1}{45} \text{ min } \times \frac{15457}{768}$

= .0273 /min

= .000455 /sec

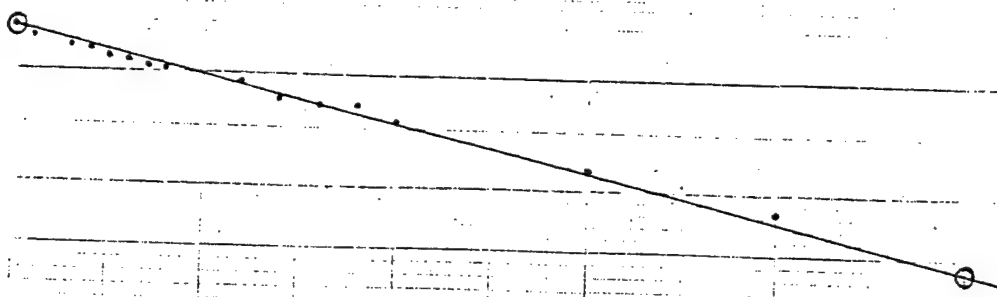


Selfridge - NG Basin  
 Southwest Landfill  
 W-25  
 Tested: 1-21-88  
 Slope =  $\left[ \frac{1}{4} \ln \frac{19.56 \text{ ft}}{5.50 \text{ ft}} \right]$   
 $= \frac{1}{15 \text{ min}} \ln \frac{19.56 \text{ ft}}{5.50 \text{ ft}}$   
 $= .0846 \text{ min}^{-1}$   
 $= .000141 \text{ sec}^{-1}$

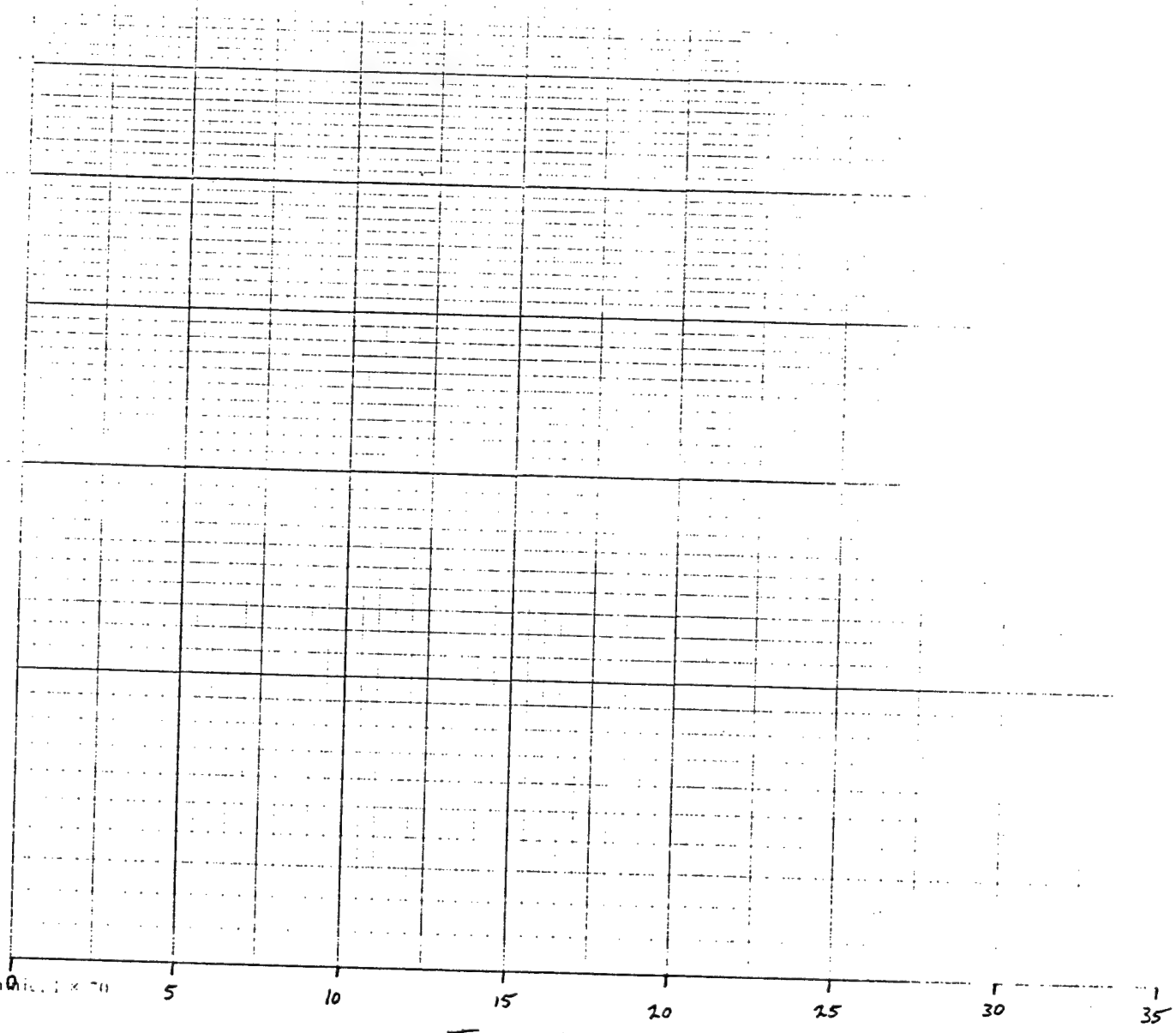


2  
190

Saltfridge ANG Base, MT  
 South end, log  
 W-31  
 Tested 2-6-88  
 Slope =  $\frac{1}{2} \times \frac{1}{1.7}$   
 $= \frac{1}{2} \times \frac{8.314}{2.303}$   
 $= 0.0091/m$   
 $= 0.000182/sec$



(rect)



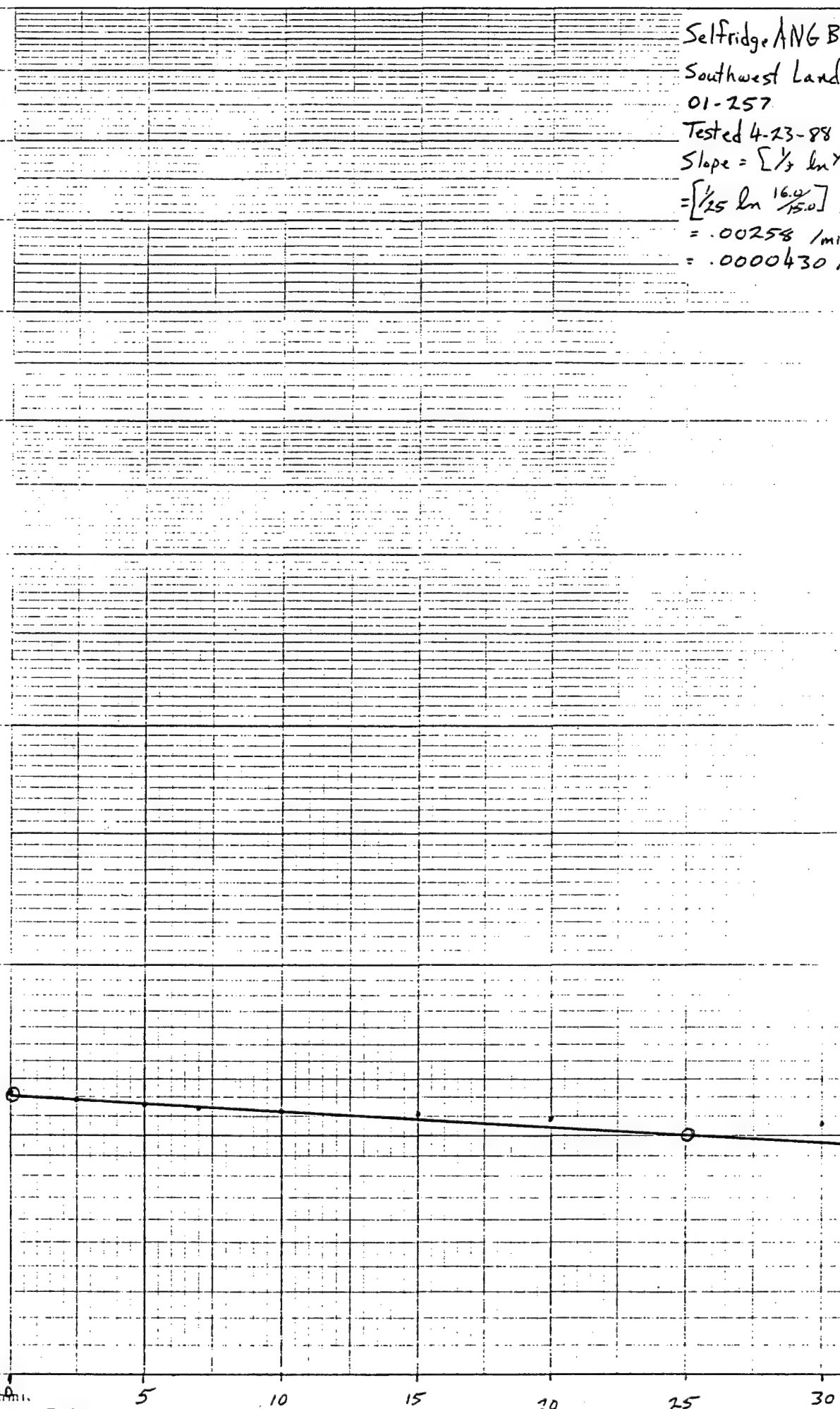
Selfridge ANG Base, MI.  
 Southwest Land Fill  
 01-257  
 Tested 4-23-88  
 Slope =  $[\frac{1}{25} \ln \frac{y}{y_0}]$   
 $= [\frac{1}{25} \ln \frac{16.0}{15.0}]$   
 $= .00258 / \text{min}$   
 $= .0000430 / \text{sec}$

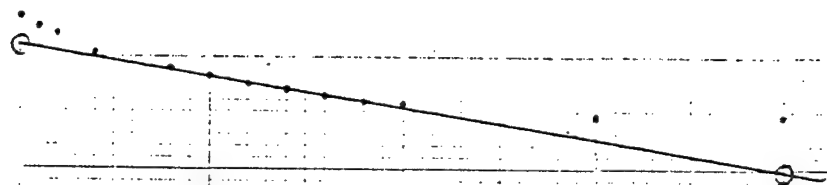
$y'$  (feet)

Semi-Logarithmic

I-12

Time (Minutes)



$$= .000122 / \text{sec}$$


C-1-r-10-10 ANG Base, ME

Southwest 1, 4, 5, 11

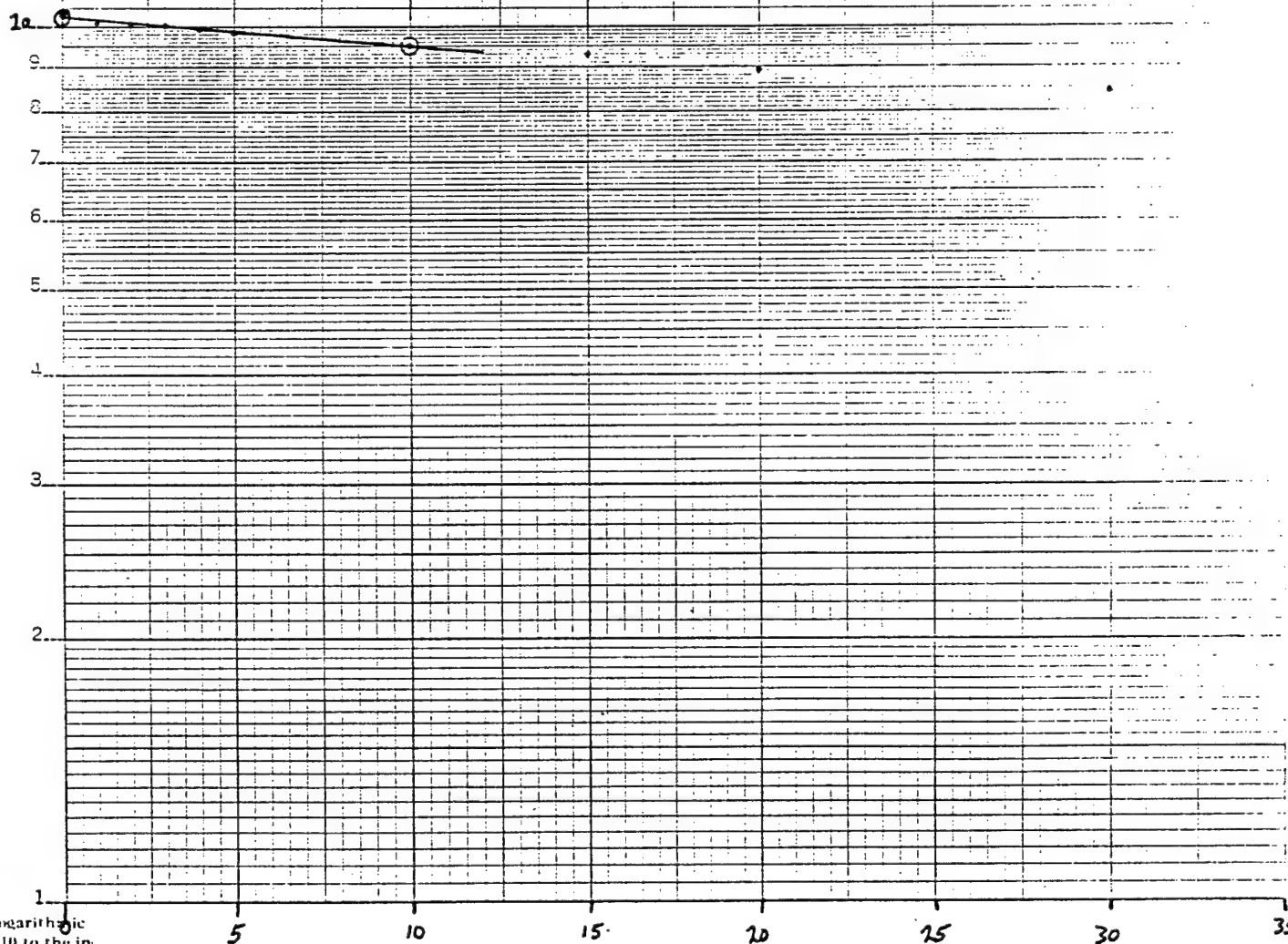
W-60.

Tested: 2-6-88

Slope:  $\frac{1}{4}$  in  $\frac{1}{4}$  ft $\frac{1}{10 \text{ min}} \ln \frac{1031 \text{ ft}}{955 \text{ ft}}$ 

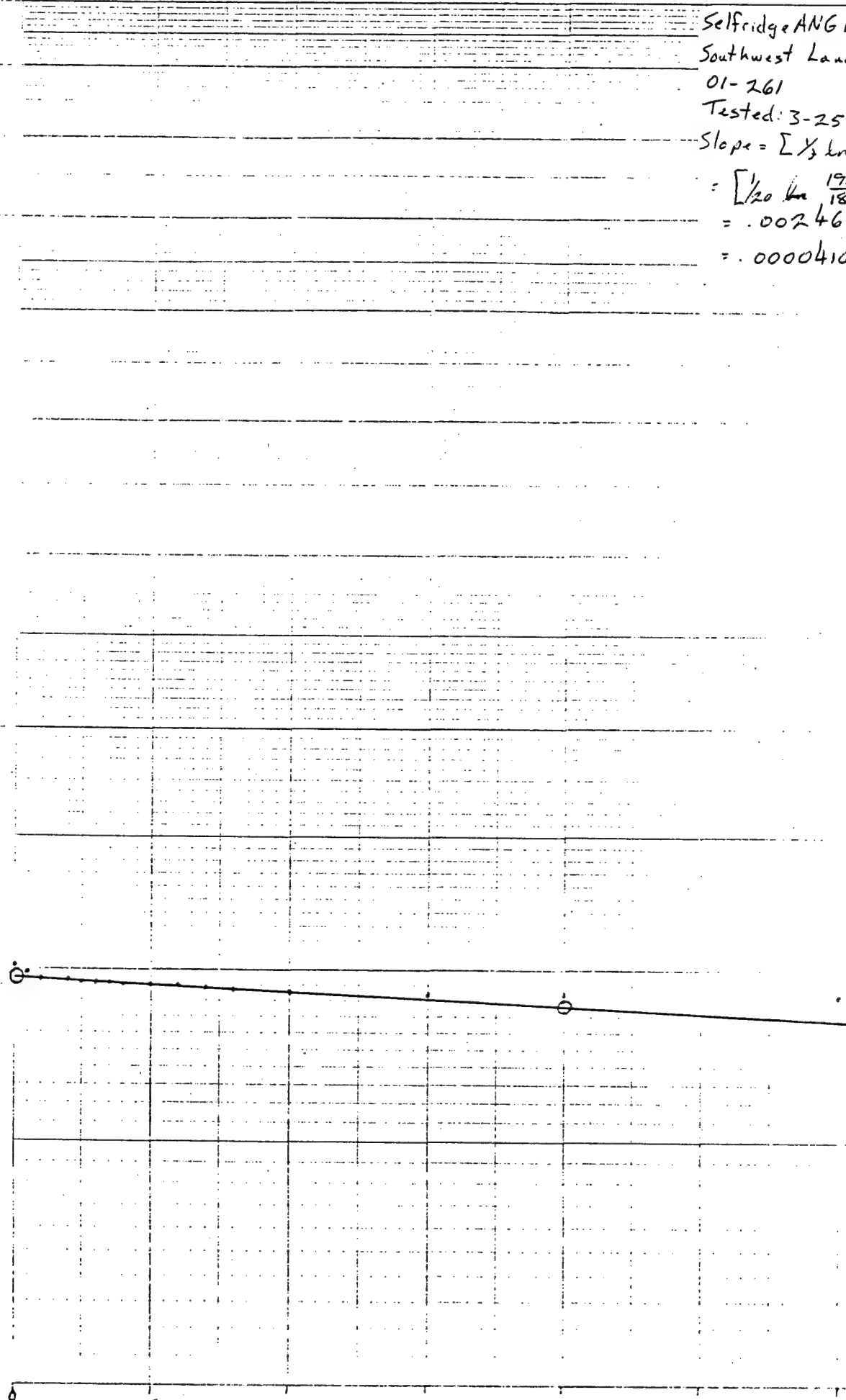
= .00765/min

= .000128/sec

 $y^+$  (Feet)



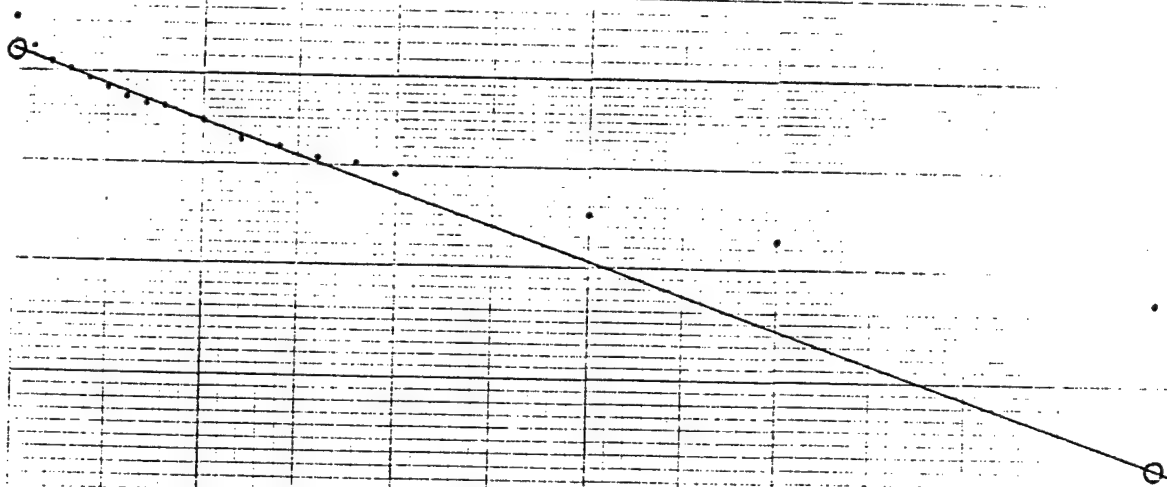
Selfridge ANG Base, MI  
 Southwest Landfill  
 01-261  
 Tested: 3-25-88  
 Slope =  $\left[ \frac{1}{20} \ln \frac{19.75}{18.80} \right]$   
 = .00246  $\frac{1}{min}$   
 = .0000410  $\frac{1}{sec}$



Time (minutes)

Selfridge ANG Base, 1E  
 Southwest 1/4 Sec. 11  
 W-62  
 Tested: 2-7-88  
 Slope =  $\frac{1}{30 \text{ min}} \times \frac{5.125 \text{ ft}}{3.17 \text{ ft}}$   
 = .0160 /min  
 = .000266 /sec

y<sup>+</sup> (Feet)



Selfridge ANGB, MI.  
Southwest Landfill  
01-263

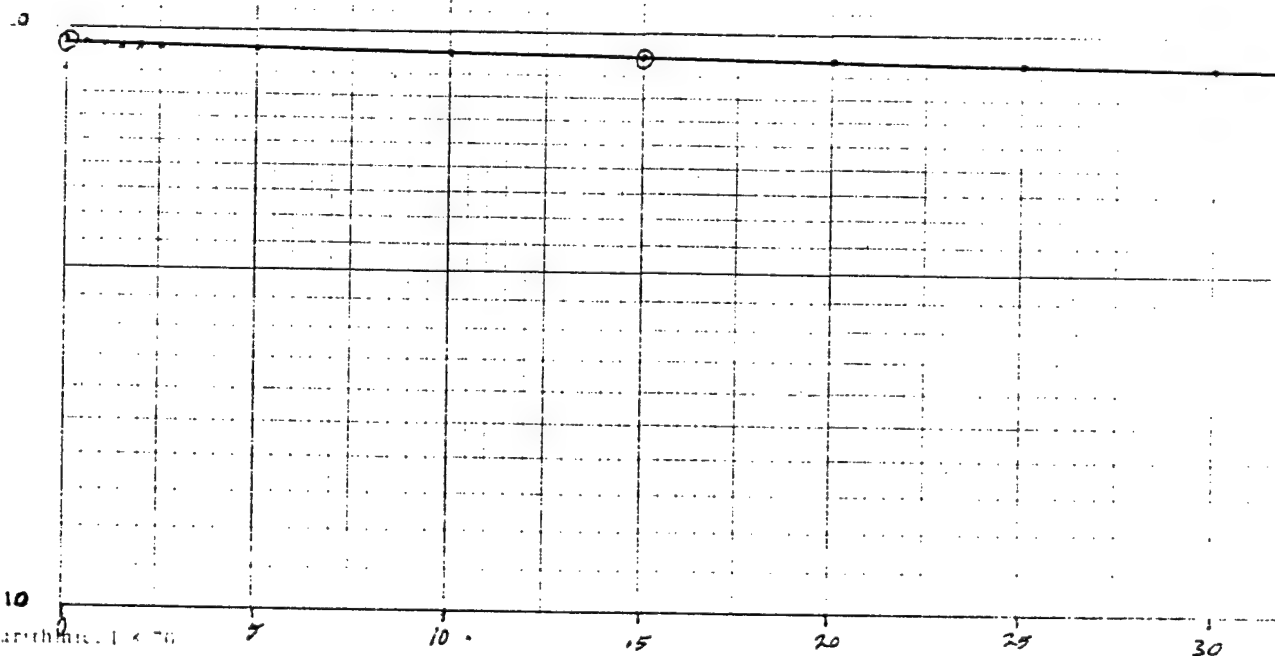
Tested 5/18/88

Slope =  $\left[ \frac{1}{t} \ln \frac{Y_0}{Y_t} \right]$

$\left[ \frac{1}{15} \ln \frac{19.7}{19.5} \right]$

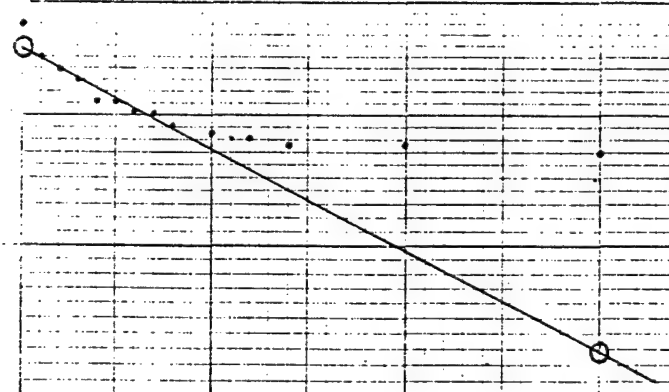
.000680 /min

.0000113 /acc



Selfridge ANG Base, UT  
 FTA #2  
 W-64  
 Tested. 2-6-88  
 Slope  $\frac{1}{2}$  in  $\frac{1}{2}$  in  
 $\frac{1}{15}$  min in  $\frac{3.80 \text{ ft}}{2.55 \text{ ft}}$   
 = .0240 /min  
 = .000400/sec

$\gamma^* (F_{et})$



Sediment ANG Base =

FTA =

1.5

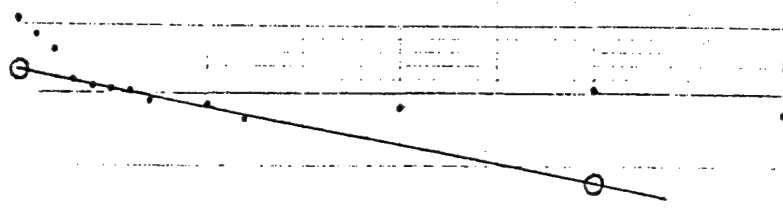
Tested 2-7-88

Slope 2.2%

1.5 min @ 5.40 ft

= .0090/min

= .000150/sec



Time (Minutes)

Selfridge ANG Base, MI

Fire Training Area 2

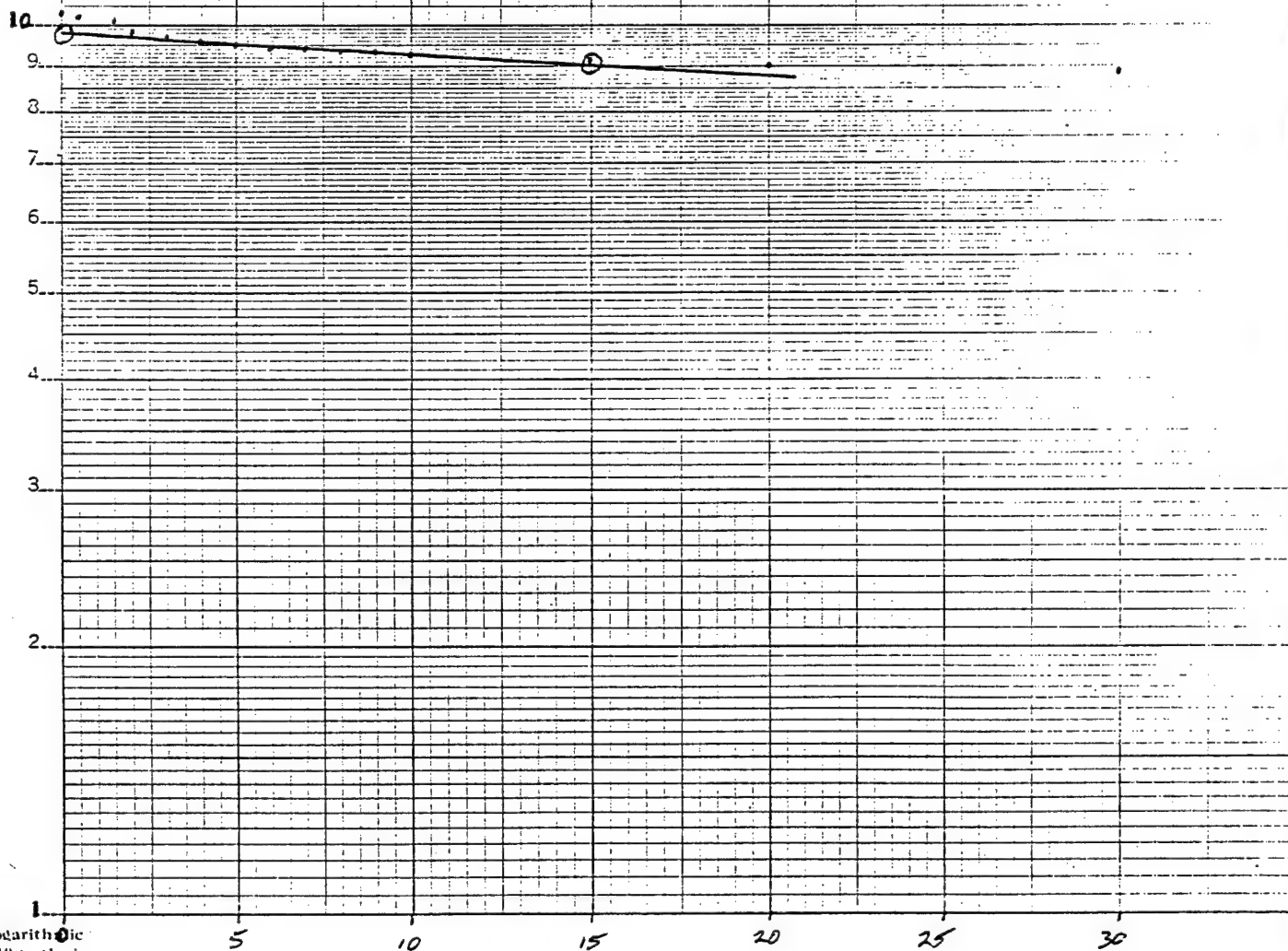
02-166

Tested: 3-26-88

Slope =  $[\frac{1}{15} \ln \frac{Y_0}{Y_t}]$  $[\frac{1}{15} \ln \frac{9.8}{9.0}]$ 

.00567 /min

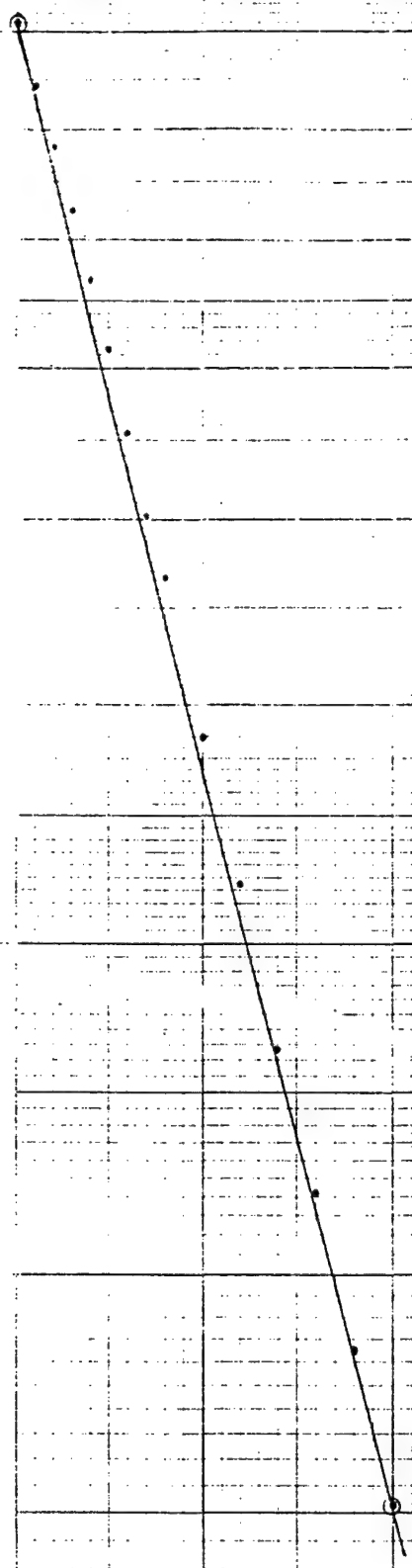
.0000946 /sec

 $Y_t$  (psi)

26

Selfing - ANG T... ME  
 FTA = 1  
 W-16  
 Test 1-26-88  
 Slope = 1/10  
 1/10 min = 1/60 sec  
 = .179/min  
 = .00298/sec

$\gamma$  (per)



semi-logarithmic,  $t \times 10$

Time (Minutes)

Selfridge ANG Base, IL

FTA #1

W-17

Tested: 1-26-88

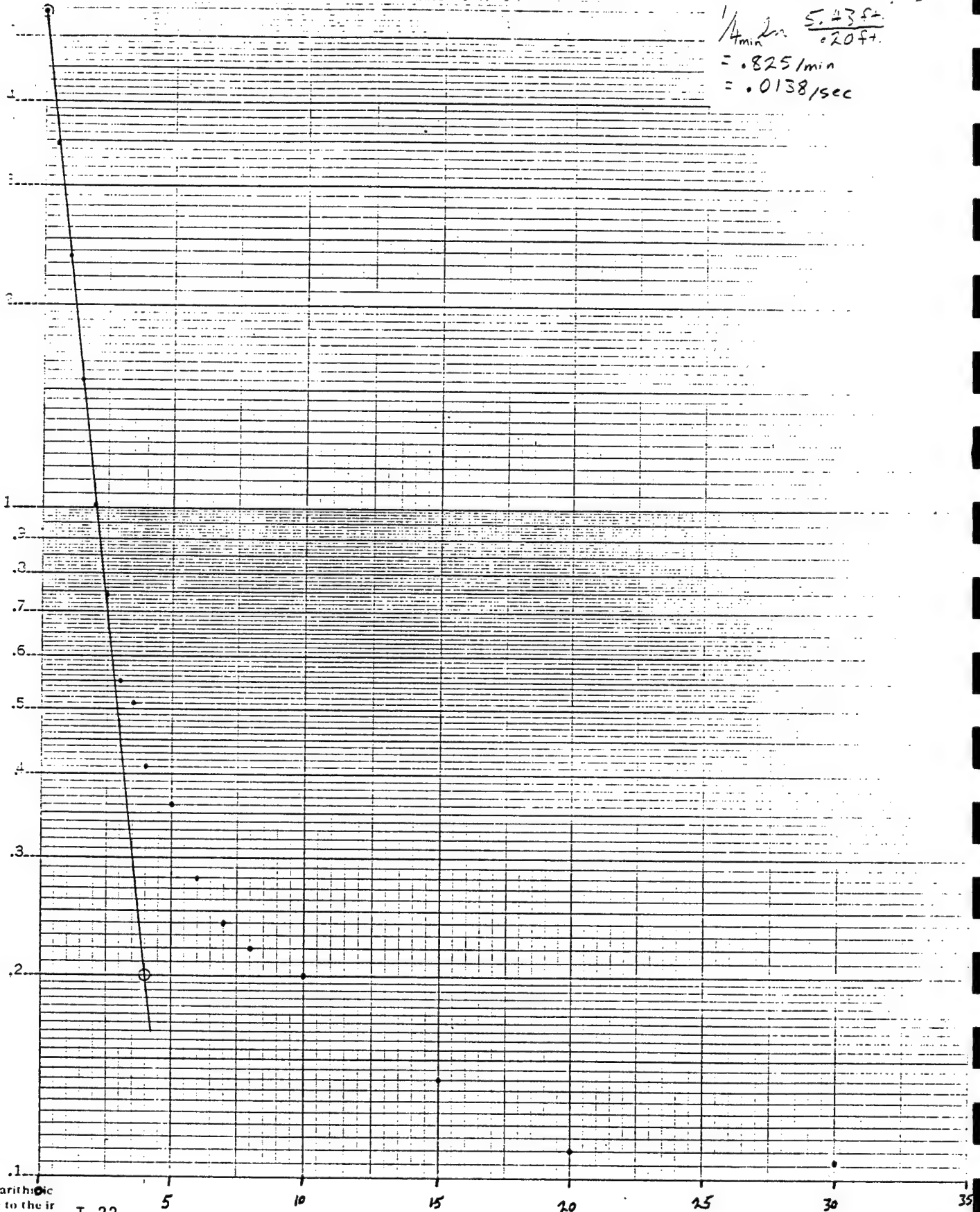
Slope: [ ]

$$\frac{1}{4} \ln \frac{5.43 \text{ ft}}{0.20 \text{ ft}}$$

$$= .825 / \text{min}$$

$$= .0138 / \text{sec}$$

$\gamma^+ (F_{\text{eff}})$



Semi-Logarithmic  
2 Cycles x 10 to the left

I-22

Time (Minutes)



Selfridge ANG Base ME

FTA #1

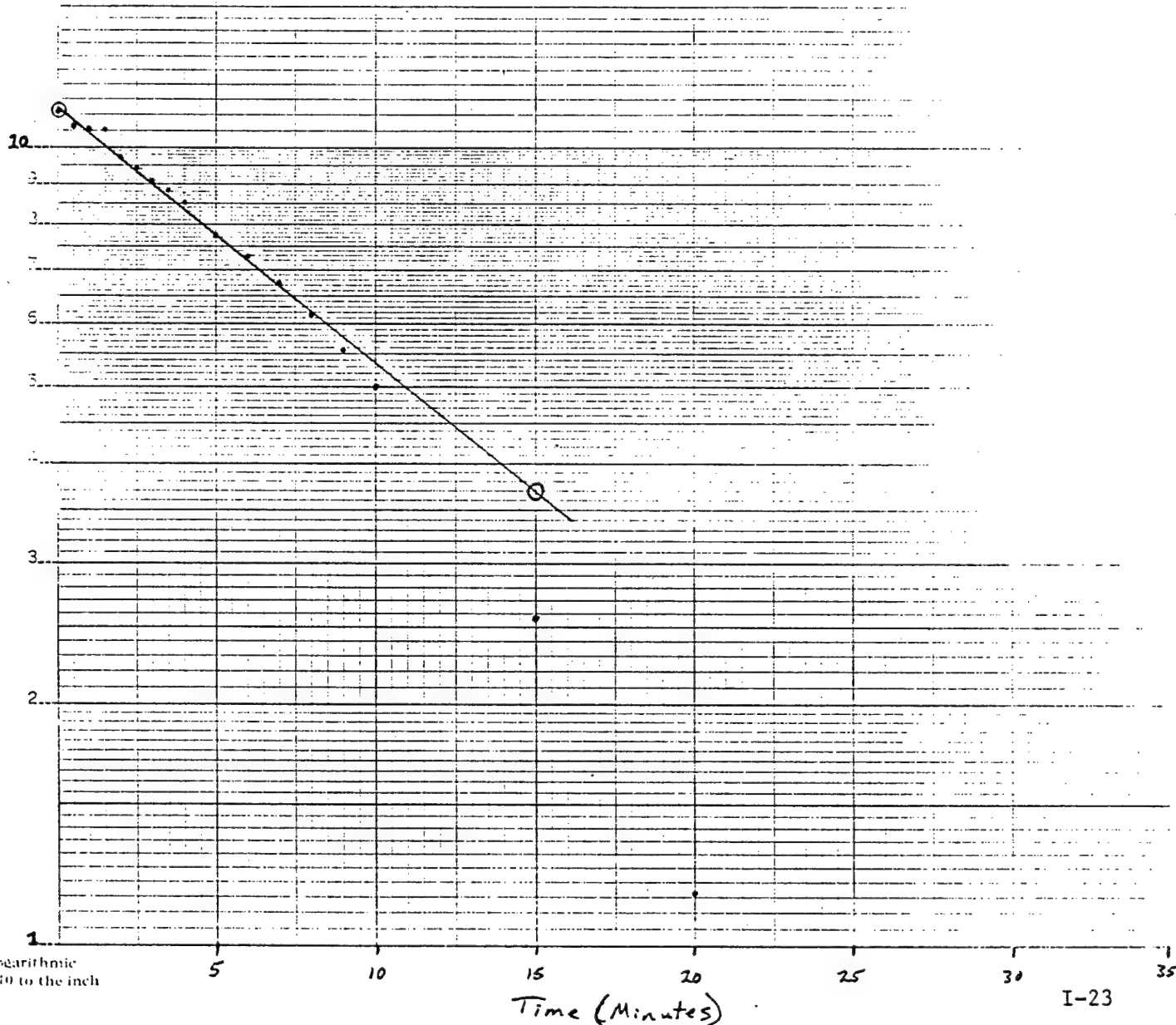
W-18

Tested: 1-27-88

Slope:  $\frac{1.10 \text{ sec}}{2.70 \text{ min}}$  $\frac{1}{\text{min}} \ln \frac{1.10 \text{ sec}}{2.70 \text{ min}}$ 

= .0732/min

= .00122/sec



2-190

West Ramp

W-11

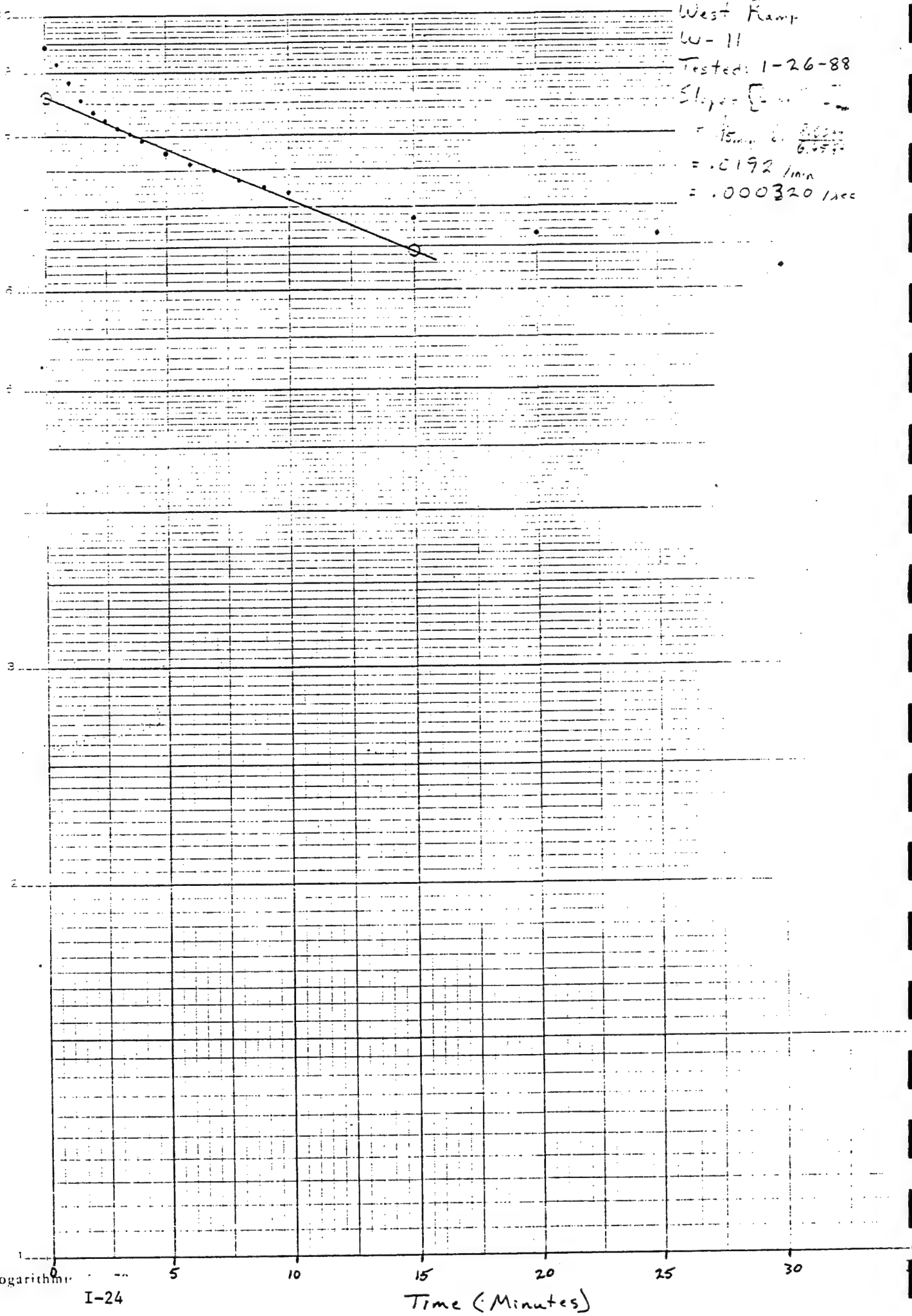
Tested: 1-26-88

Slope =  $\frac{15 \text{ min} \times 6.0 \text{ sec}}{6.0 \text{ sec}}$

$= .0192 \text{ /min}$

$= .000320 \text{ /sec}$

$\gamma^2 (F_{\text{ext}})$



Semi-Logarithmic

I-24

Time (Minutes)

Selfridge ANG Base NE

West Ramp

W-12

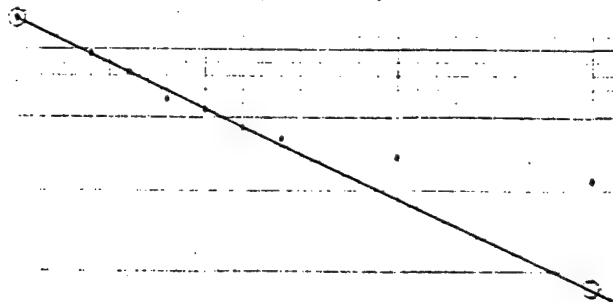
Tested: 1-26-88

Slope =  $\left[ \frac{1}{4} \ln \frac{L_0}{Y_0} \right]$

=  $\frac{1}{4} \ln \frac{1.7 \times 10^{-5}}{4.90 \times 10^{-5}}$

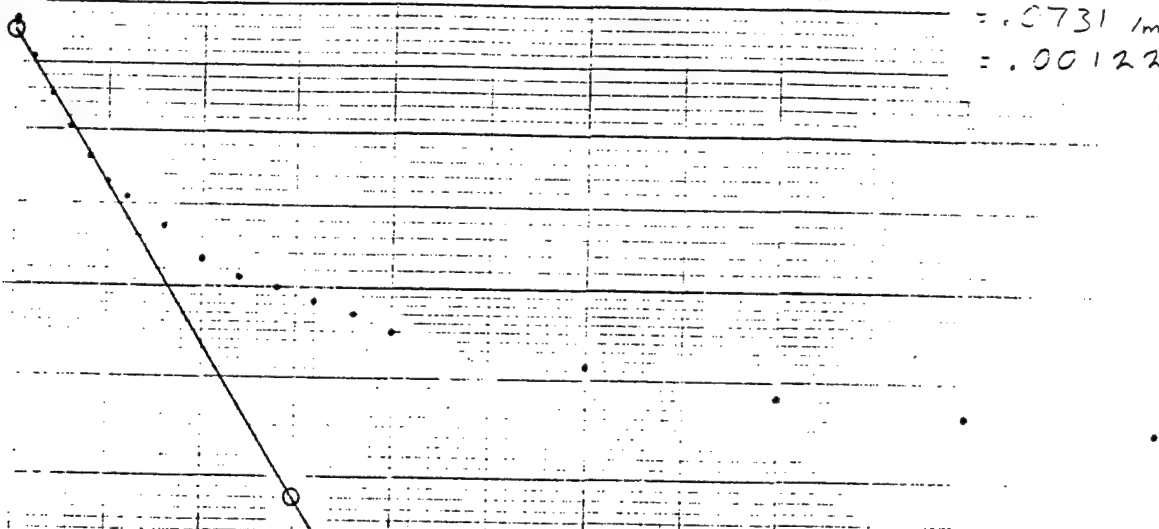
= 0.0214 min

= 0.000356 /sec

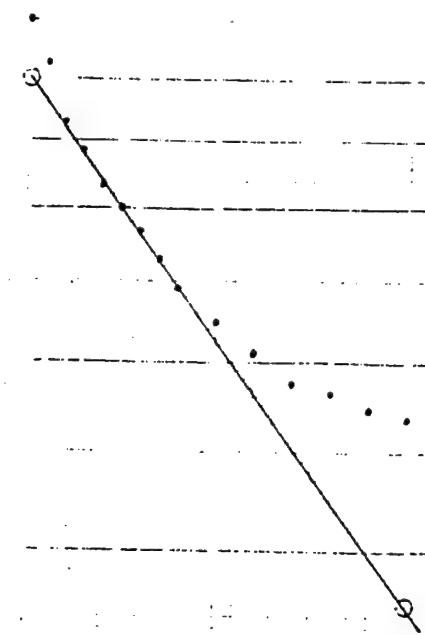


Selfridge ANG Base, MI.  
 West Ramp  
 W-13  
 Tested: 1-25-88  
 Slope:  $\frac{1}{1.5 \text{ min}} \times \frac{0.25 \text{ in}}{1.0 \text{ in}}$   
 $= .0731 \text{ /min}$   
 $= .00122 \text{ /sec}$

y<sup>+</sup> (Feet)

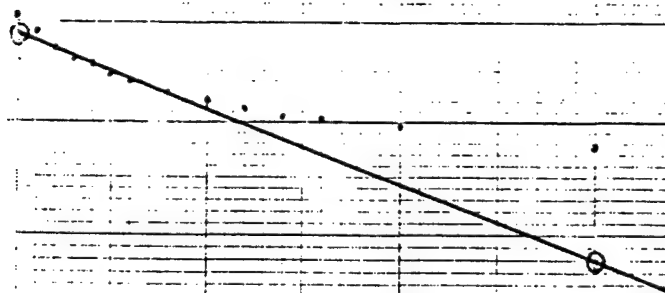


Frigo ANG B... M=  
 West Ramp  
 6-15  
 Tested 1-26-88  
 Slope =  $\frac{1}{10 \text{ min}} \times \frac{7.00 \text{ F}}{5.75 \text{ min}}$   
 = .002 - min  
 = .00104/sec

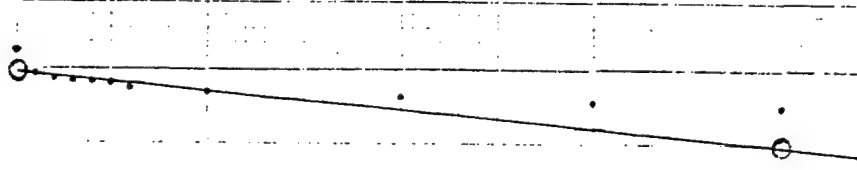


Selfridge ANG Base, MI  
 West Ramp  
 04-148  
 Tested: 3-23-88  
 $Slope = \left[ \frac{1}{15} \ln \frac{y_2}{y_1} \right]$   
 $= \left[ \frac{1}{15} \ln \frac{4.44}{3.40} \right]$   
 $= .0178 \text{ 1/min}$   
 $= .000297 \text{ 1/sec}$

$y^*$  (ft)

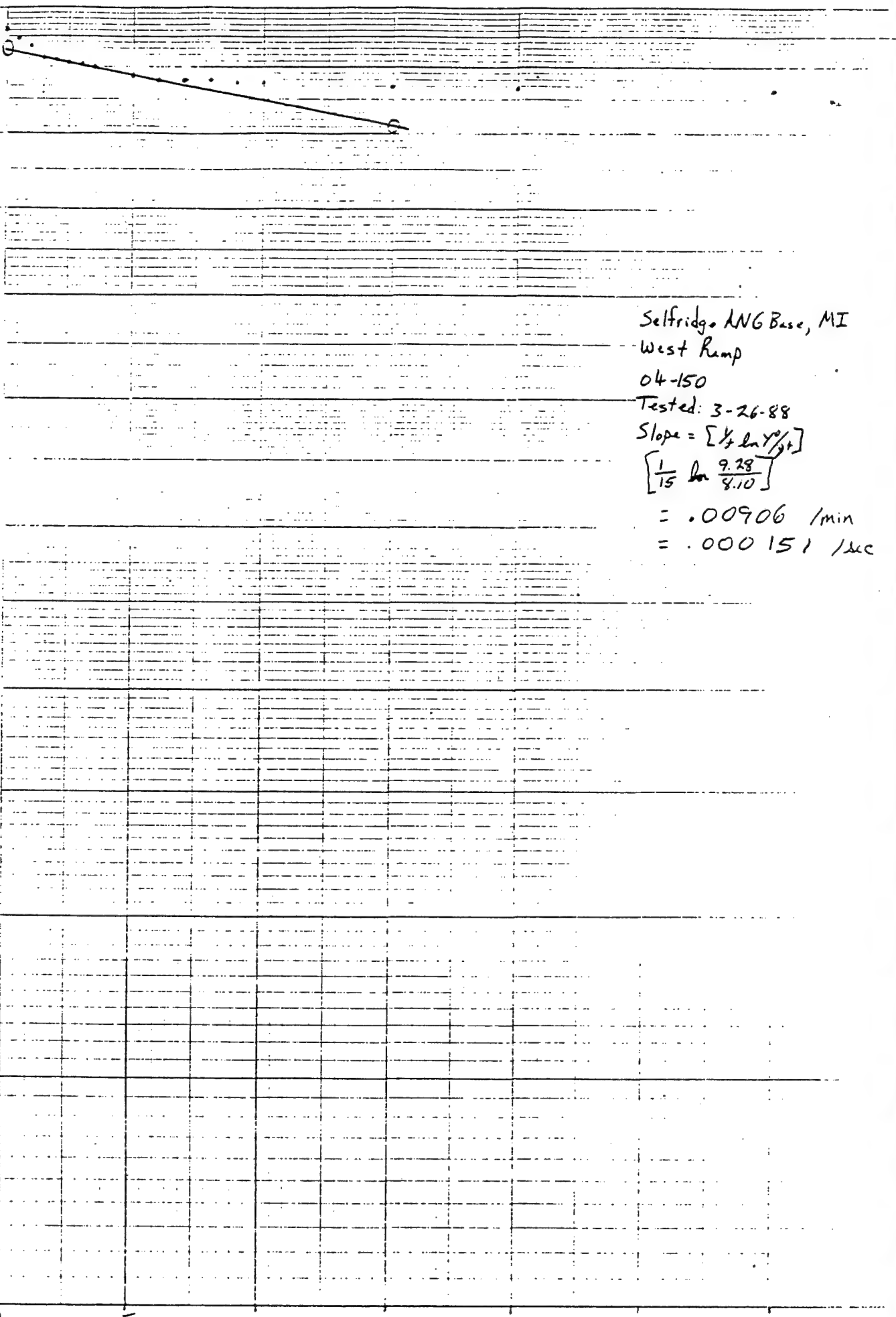


Test Log - 107-11  
 West Ramp  
 Test-d 2-8-88  
 Slope:  $\frac{1}{2} \text{ in } \frac{1}{10} \text{ ft}$   
 $\frac{1}{20} \text{ in } \frac{5.29 \text{ ft}}{5.48 \text{ ft}}$   
 $= .10 \pm 3 / \text{min}$   
 $= .0000717 / \text{sec}$



Yr (Feet)

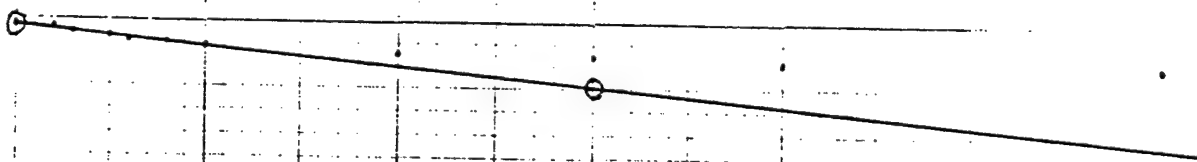
(fact)



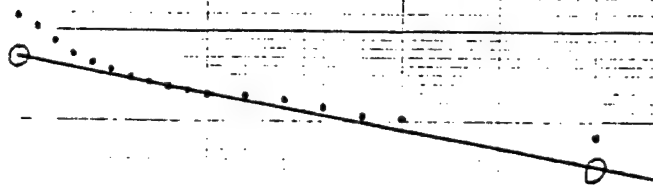
Selfridge ANG Base, MI  
 West Ramp  
 04-150  
 Tested: 3-26-88  
 Slope =  $\left[ \frac{1}{15} \ln \frac{9.28}{4.10} \right]$   
 = .00906 /min  
 = .000151 /sec



Selfridge ANG Base, MI  
West Ramp  
04-251  
Tested 3-23-88  
Slope =  $\left[ \frac{1}{15} \ln \frac{19.9}{18.5} \right]$   
= .00486 1/min  
= .0000810 /sec

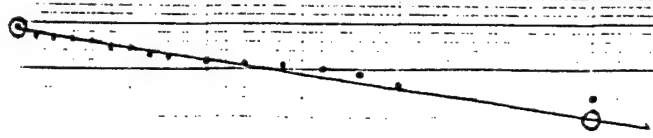


Selfridge ANGB, MI  
 West Ramp  
 04-152  
 Tested 5-17-88  
 Slope =  $\left[ \frac{1}{t} \ln \frac{y_0}{y} \right]$   
 $= \left[ \frac{1}{15} \ln \frac{485}{427} \right]$   
 $= .00849 \text{ /min}$   
 $= .000142 \text{ /sec}$



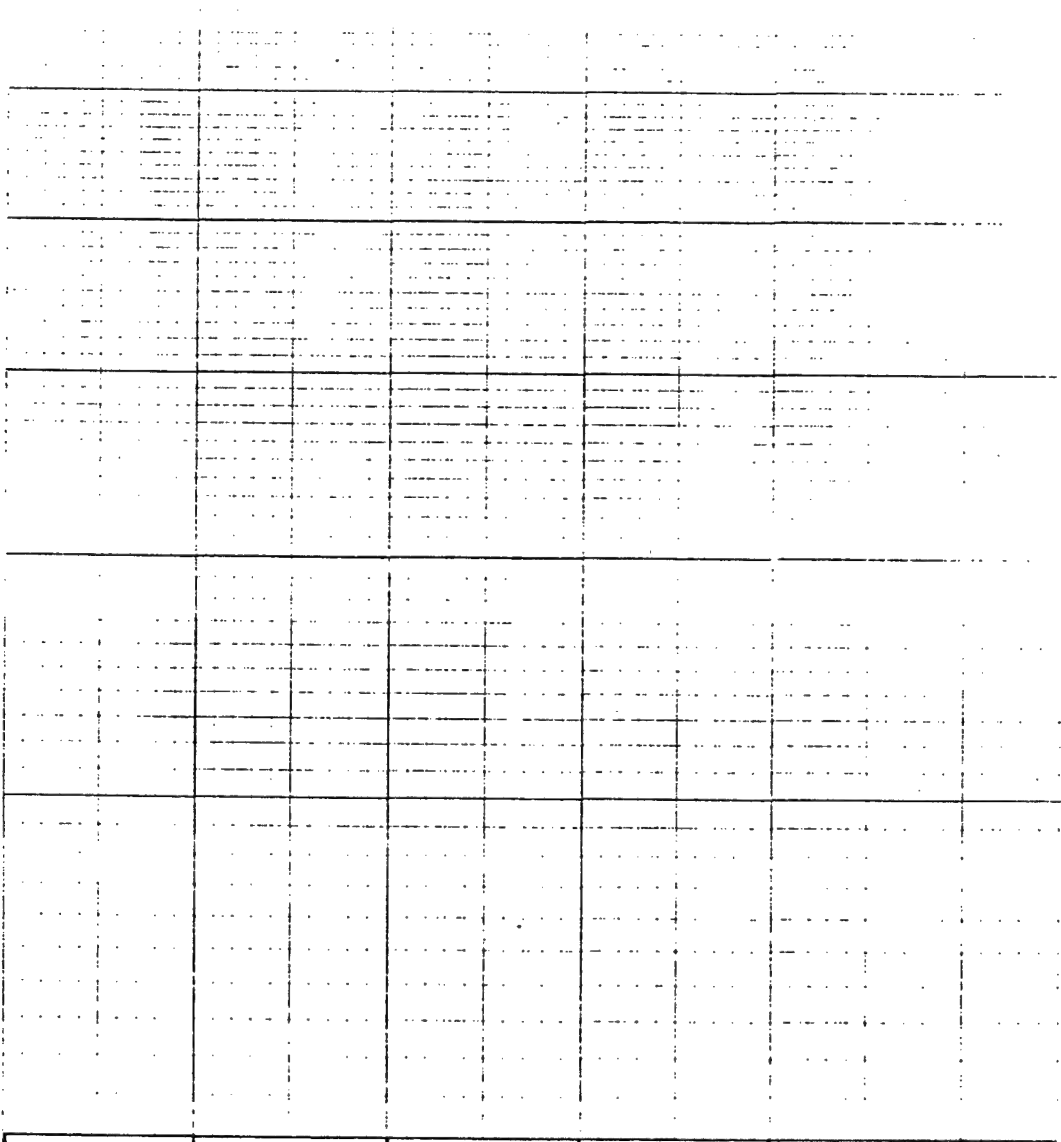
y(t)

30



Self-Heating ANC Test  
 Weight Factor  
 $W = 53$   
 Test Date: 1-25-88  
 $\frac{1}{15} = \frac{1}{15}$   
 $\frac{1}{15} = \frac{1}{15}$   
 $= .0067 / \text{min}$   
 $= .000111 / \text{sec}$

(Feet)



Time (min) 0 5 10 15 20 25 30 35

12-80

Self-heating ANG L. M.

Test Ramp

W-5+

Tested: 1-25-88

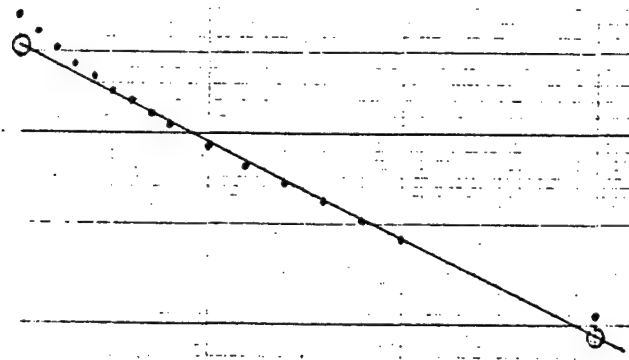
Slope =  $1 \text{ in } \dots$

$\frac{1}{15 \text{ min}} \text{ or } \frac{5.5 \text{ min}}{15 \text{ min}}$

$= .022+ / \text{min}$

$= .00037+ / \text{sec}$

$Y^+ (F_{\text{ect}})$

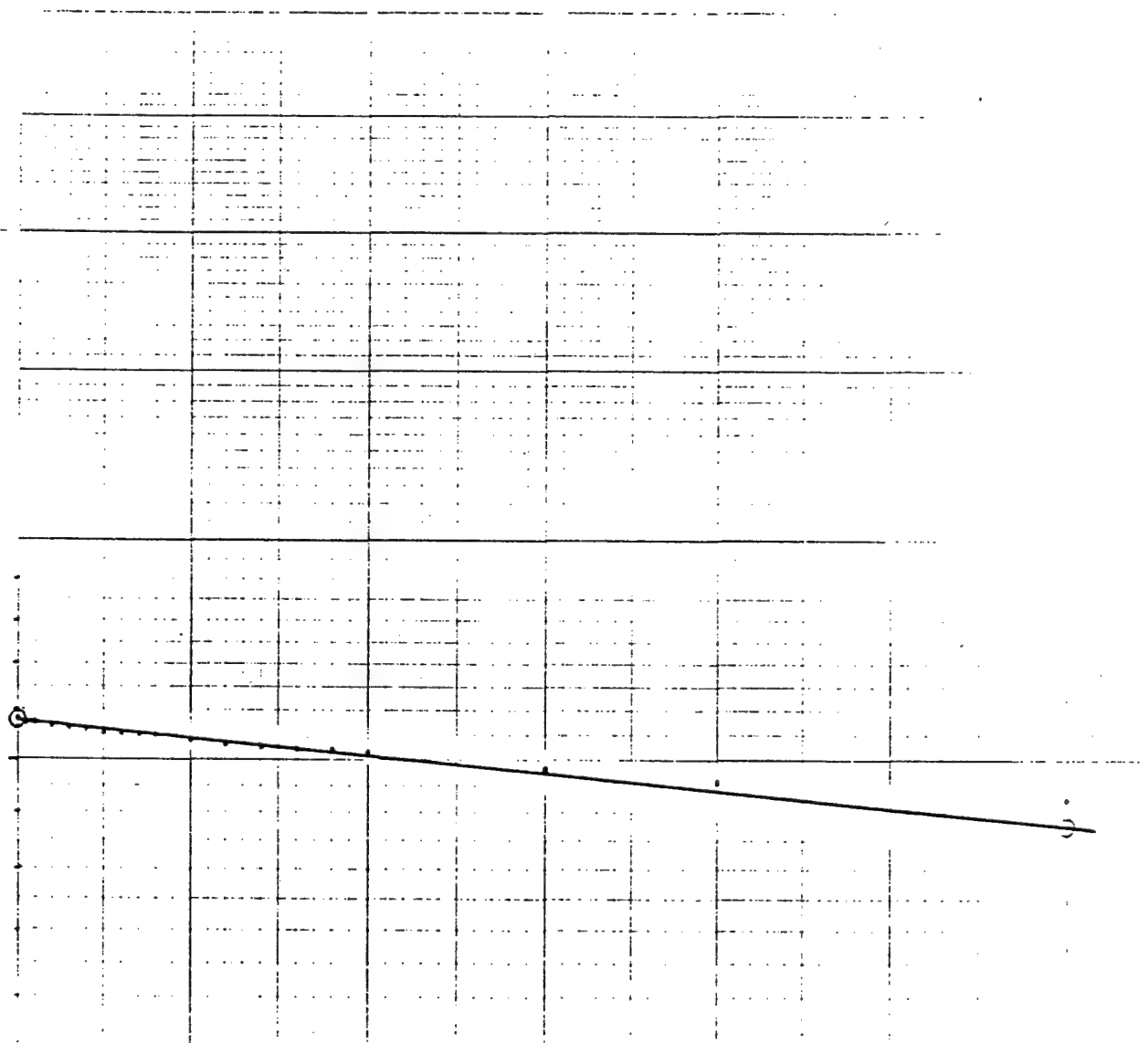


100

100

Selfridge ANG Base ME  
 West Ramp  
 W-55  
 Tested: 2-8-88  
 Slope:  $[-2.5]$   
 $= \frac{1}{30 \text{ min}} \times \frac{5.80 \text{ m}}{13.75 \text{ m}} = .00463 \text{ /min}$   
 $= .0000772 \text{ /sec}$

$y^t(\text{rect})$

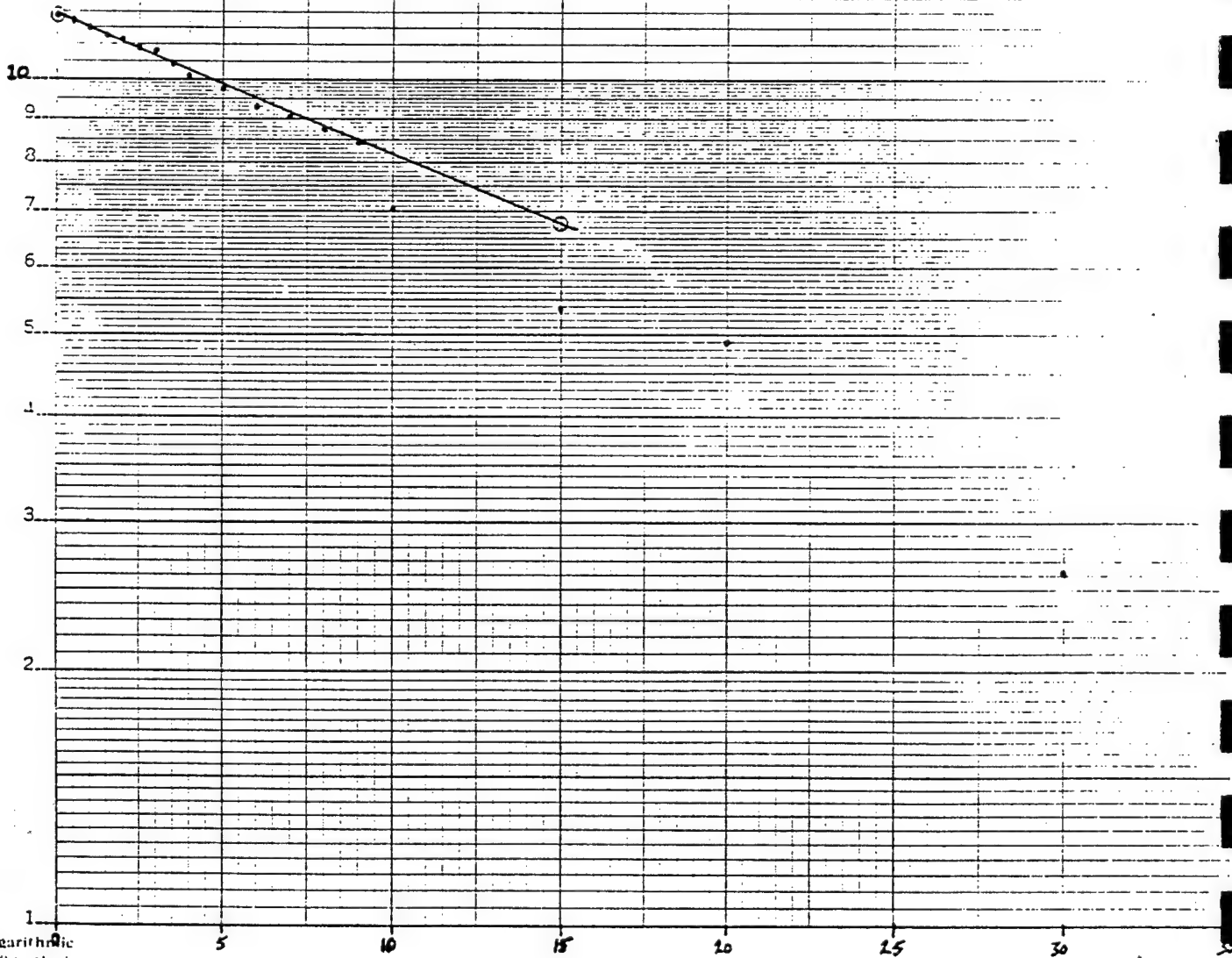


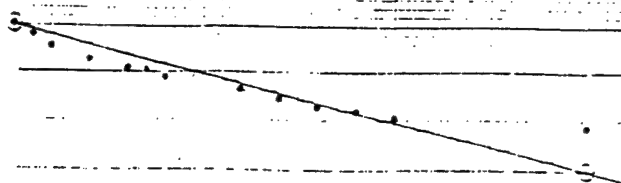
semi-logarithmic, 1 x 70

100

Selfridge ANG Base, AL  
Tucker Creek Landfill  
W-5  
Tested: 1-23-88  
Slope =  $\left[ \frac{1}{4} \ln \frac{11.92}{6.795} \right]$   
=  $\frac{1}{15} \text{ min} \ln \frac{11.92}{6.795}$   
= .0375 /min  
= .000625 /sec

$Y^+$  (Feet)





Kelfridge ANG Base 1-1  
Tucker Creek!

Tested 2-2-38  
Slope  $\frac{1}{15} \ln \frac{9.5}{4.5}$

$$\frac{1}{15} \ln \frac{9.5}{4.5}$$

$$= .0115 \text{ min.}$$

$$= .000192 \text{ sec}$$

Selfridge ANG Base, MI

Tucker Creek Landfill

05-130

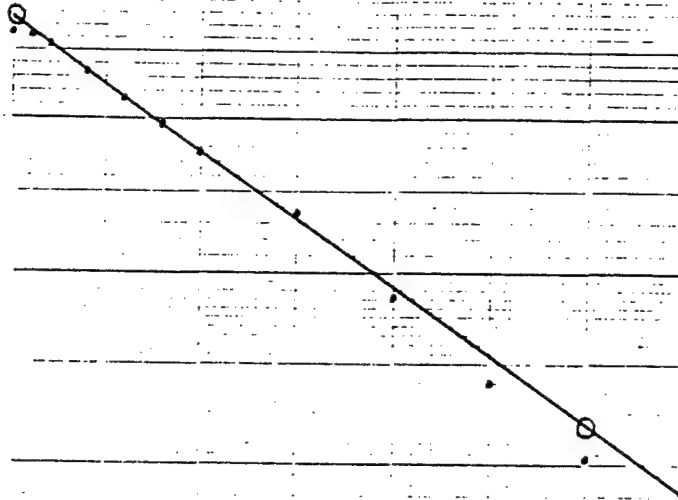
Tested: 4-12-88

Slope =  $\left[ \frac{1}{t} \ln \frac{Y_0}{Y_t} \right]$

$= \left[ \frac{1}{15} \ln \frac{6.75}{4.20} \right]$

$= -0.0316 \text{ /min}$

$= -0.00527 \text{ /hr}$





100

Selfridge ANG Base, MI  
Tucker Creek Landfill  
05-231

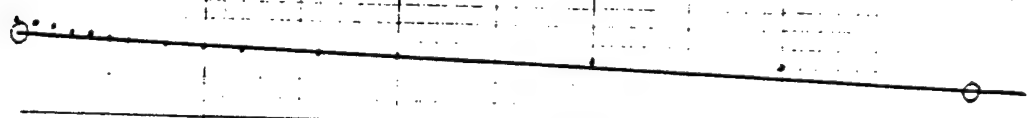
Tested: 3-23-88

$$\text{Slope} = \left[ \frac{1}{25} \ln \frac{219}{210} \right]$$

$$= \left[ \frac{1}{25} \ln \frac{219}{210} \right]$$

$$= .00168 \text{ /min}$$

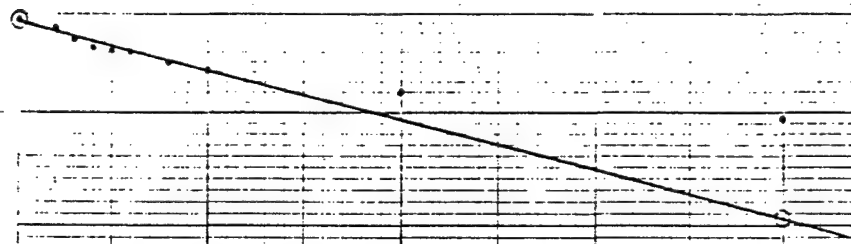
$$= .0000278 \text{ /sec}$$



26

Center of ANG Basin 115  
 Tucker Creek 115  
 n = 32  
 Tested 1-21-88 + 1-22-88  
 $S_p = \left[ \ln \frac{10}{y^*} \right]$   
 $= \frac{1}{20 \text{ min}} \ln \frac{4.45 \text{ ft}}{0.5 \text{ ft}}$   
 $= .0117 / \text{min}$   
 $= .000195 / \text{sec}$

$y^* (\text{Feet})$



Selfridge ANG Base, MI  
Tucker Creek Landfill

05-233

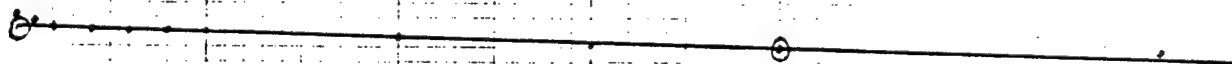
Tested. 4-11-88

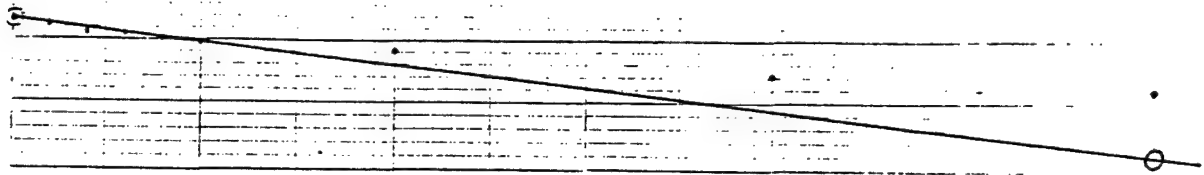
$$\text{Slope} = \left[ \frac{1}{2} \ln \frac{y_0}{y_t} \right]$$

$$= \left[ \frac{1}{2} \ln \frac{28.20}{2757} \right]$$

$$= .00113 \text{ /min}$$

$$= .0000188 \text{ /dec}$$



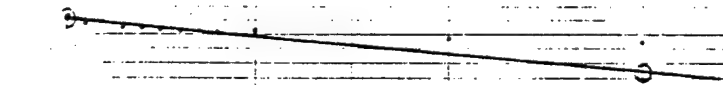


Selfridge ANG Base MS  
 Tucker Creek Landfill  
 W-34  
 Tested: 1-21-88  
 $Slope = \left[ \frac{1}{4} \ln \frac{y_0}{y} \right]$   
 $= \frac{1}{30 \text{ min}} \ln \frac{7.19 \text{ ft}}{6.10 \text{ ft}}$   
 $= .0055 / \text{min}$   
 $= .0000913 / \text{sec}$

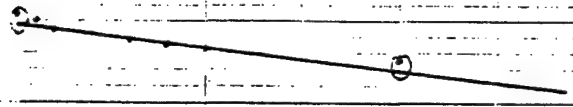
y (Feet)

100

20.4 in. Hg  
 10-35  
 Test no. 1-24-88  
 $\Delta p = \frac{1}{5} \text{ in. Hg}$   
 $= .00944 \text{ /min}$   
 $= .000141 \text{ /sec}$



Selfridge ANG Base, MI  
 Tucker Creek Landfill  
 05-167  
 Tested: 4-12-88  
 Slope =  $\left[ \frac{1}{t} \ln \frac{Y}{Y_0} \right]$   
 =  $\left[ \frac{1}{10} \ln \frac{5.48}{5.19} \right]$   
 = .00544 /min  
 = .0000906 /sec



Y (ft)

Salt Lake ANG Base HI

North - - - - -

1-3

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

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1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

1-25-88

\* Recharged to above  
starting level in 15min.

100

Selfridge ANG Base ME  
 11/1/88  
 1-25-88  
 1-25-88

25.4 in. 2.25 in.  
 = .0228 in.  
 = .000380/sec

$\gamma^2 (F_{ct})$

10

9

8

7

6

5

4

3

2

1

0

0

0

0

0

0

0

0

0

0

0

0

0

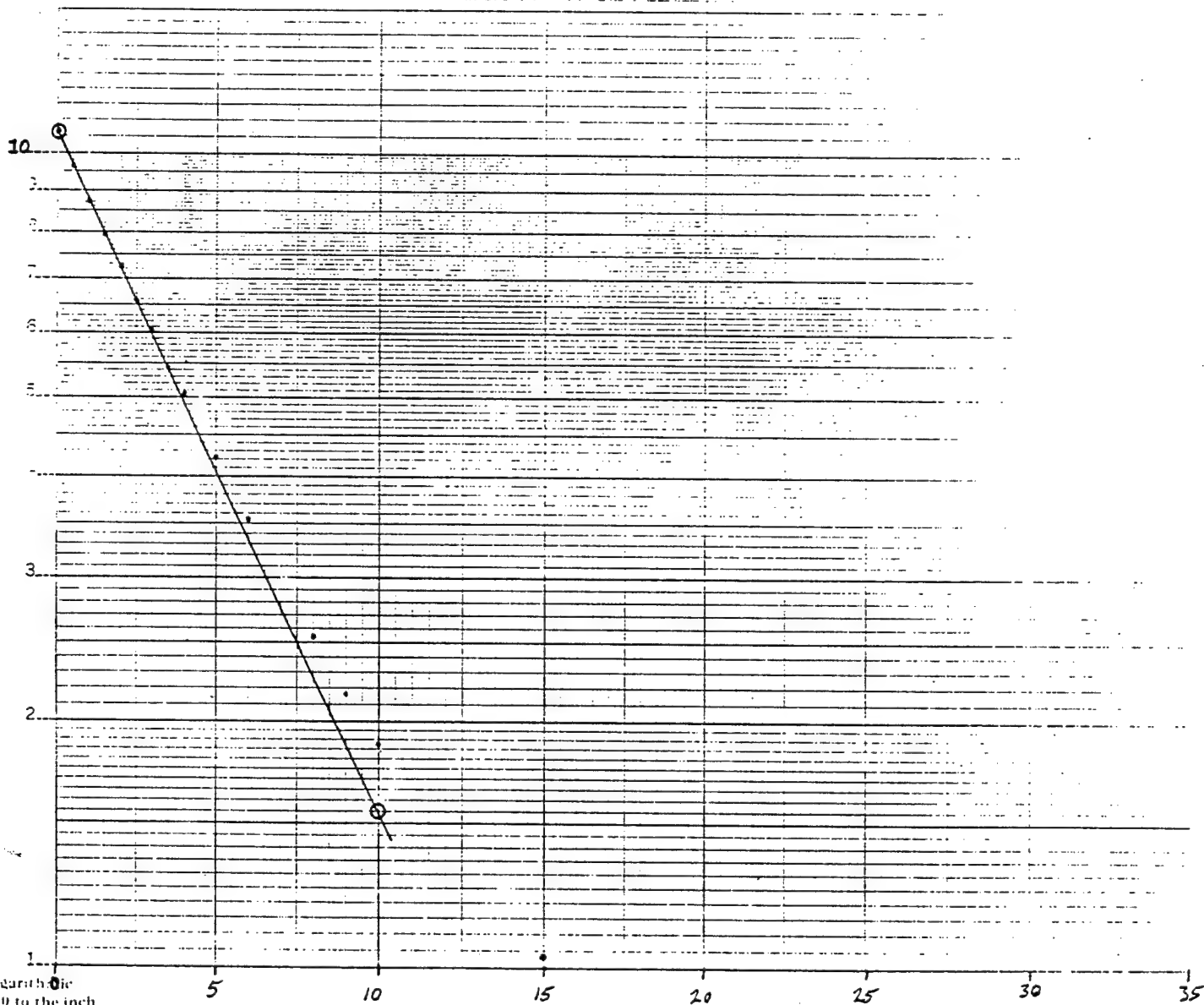
0

0



Selfridge ANG Base ME  
 Northwest Land 1  
 10-10  
 Tested: 1-25-88  
 Slope =  $\frac{1}{1.552}$   
 $= .1917 \text{ m}$   
 $= .00319/\text{sec}$

Free



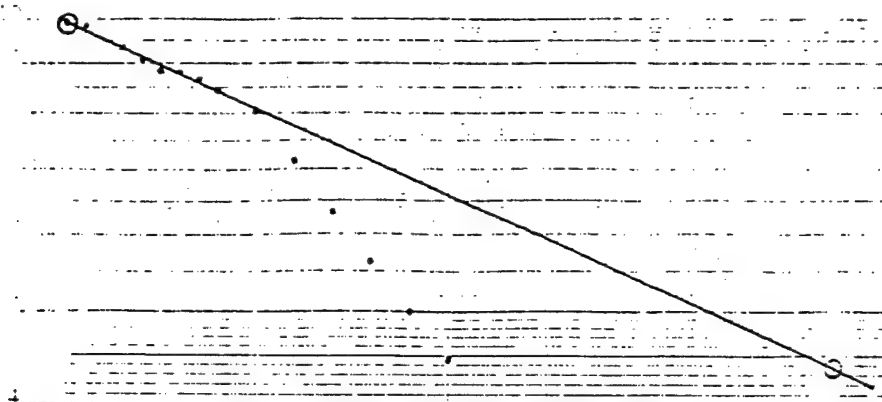
$\gamma^+$  (Feet)

Semi-Logarithmic  
2 Cycles x 10 to the in

I-48

Time (Minutes)

Selfridge ANG Bas. M=  
N. + lowest hand 6.4  
W-44  
Tested 2-8-88  
Slope =  $\left[ \frac{1}{2} \ln \frac{9.95 \text{ ft}}{4.38 \text{ ft}} \right]$   
=  $\frac{1}{20 \text{ min}} \ln \frac{9.95 \text{ ft}}{4.38 \text{ ft}}$   
= .0410 /min  
= .000684 /sec



Selfridge ANG Base pt.

North West -

L-LS

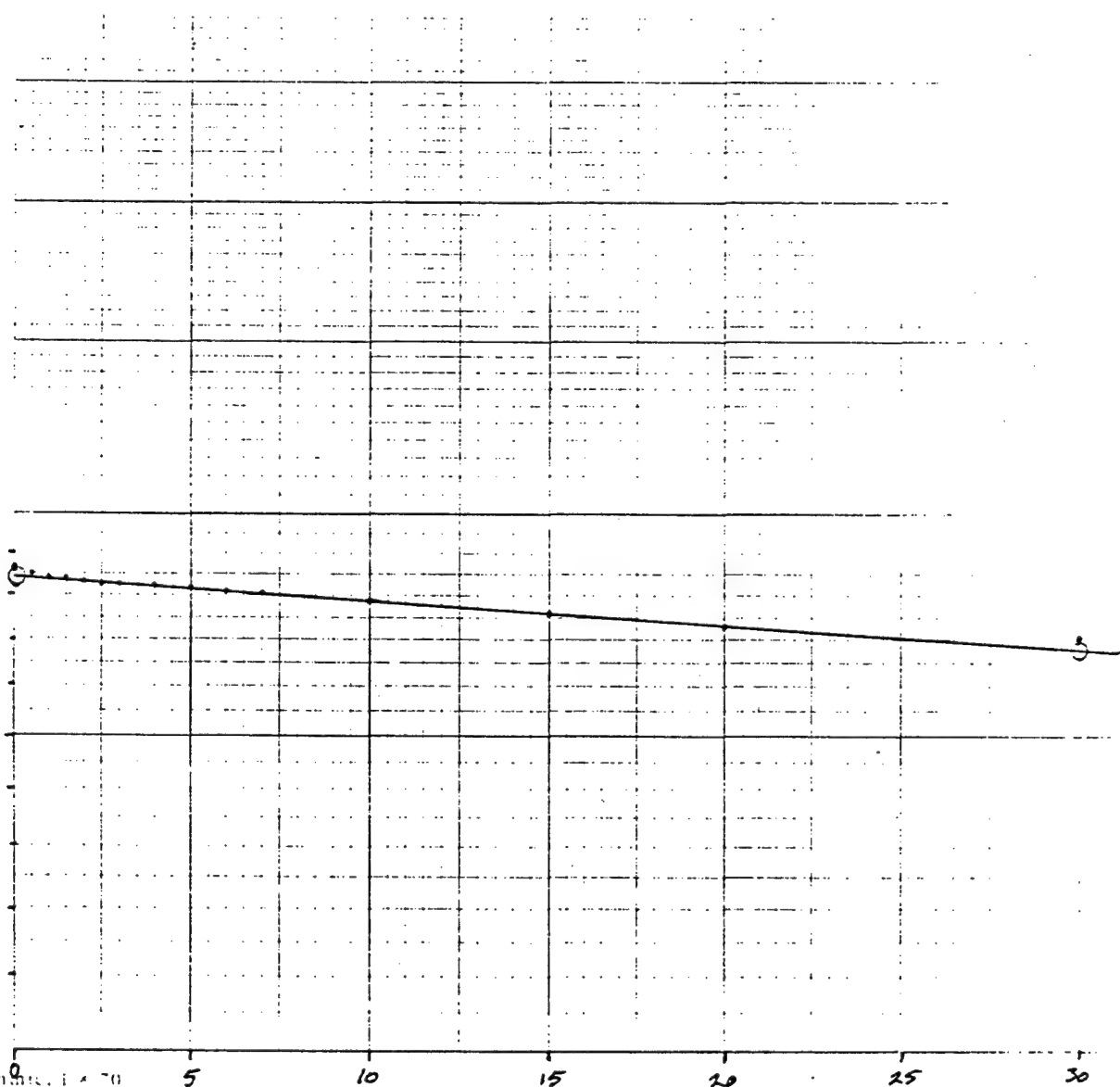
T-7.0: 2-8-33

log -

= 30 min for  $\frac{19.45 \text{ sec}}{16.85 \text{ sec}}$

= .0030 min

= .0000505 sec



Selfridge ANG Base M-  
Northwest "red fill"

w-46

Tested: 2-8-88

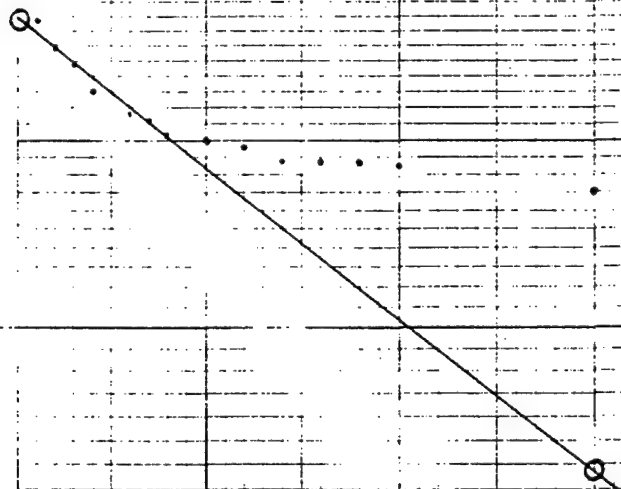
Slope =  $\frac{1}{4} \ln \frac{y_2}{y_1}$

=  $\frac{1}{4} \ln \frac{2.0 \times 10^{-2}}{1.0 \times 10^{-2}}$

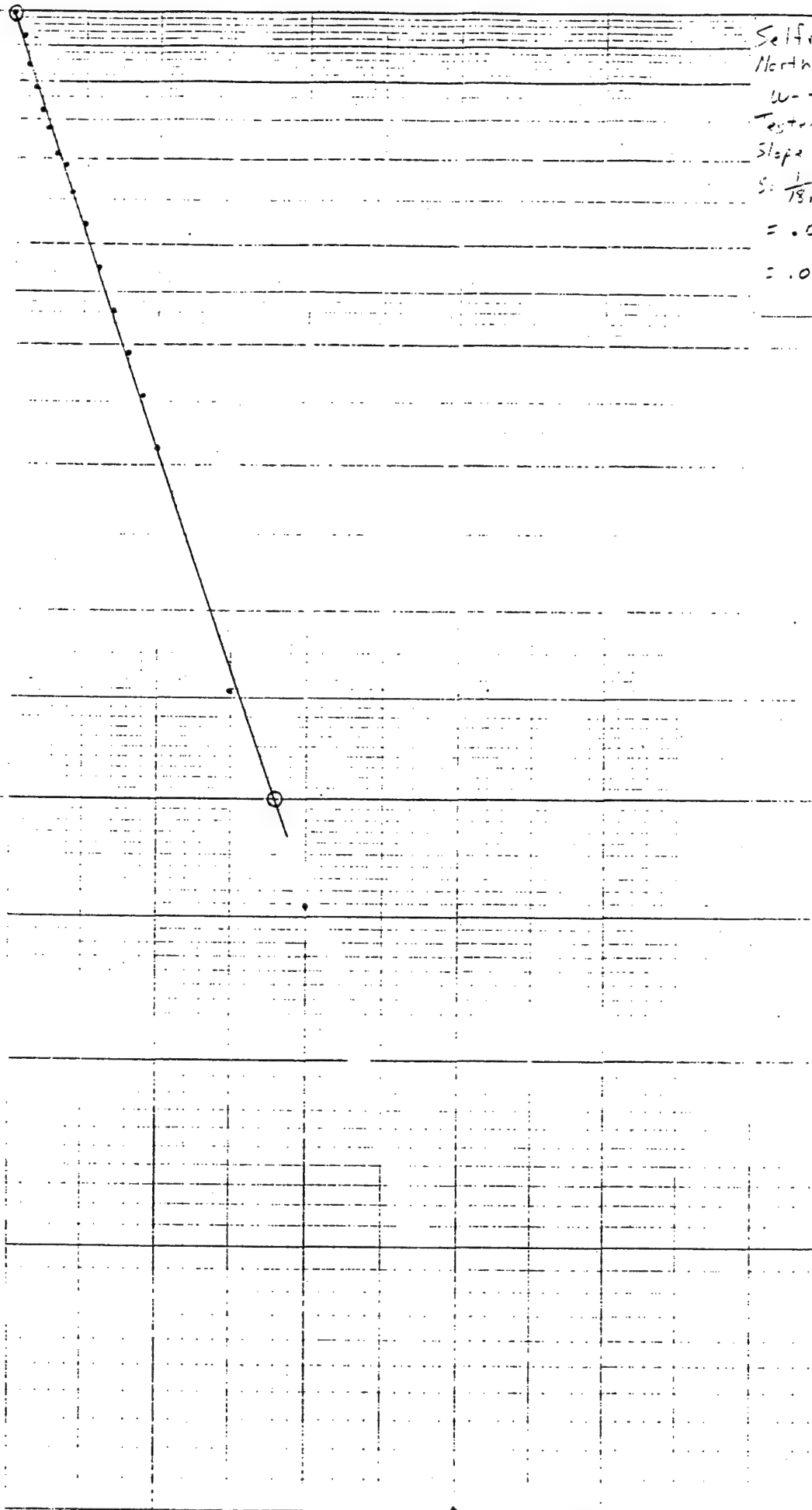
= .0364/min

= .000607/sec

$y_2$  (FEET)



$Y_t$  (FEET)



Selfridge ANG Base, MI

Northwest Landing

W-47

Tested 2-7-88

Slope 1.6 ft/min

$S = \frac{1}{18} \text{ min} \ln \frac{9900}{10000}$

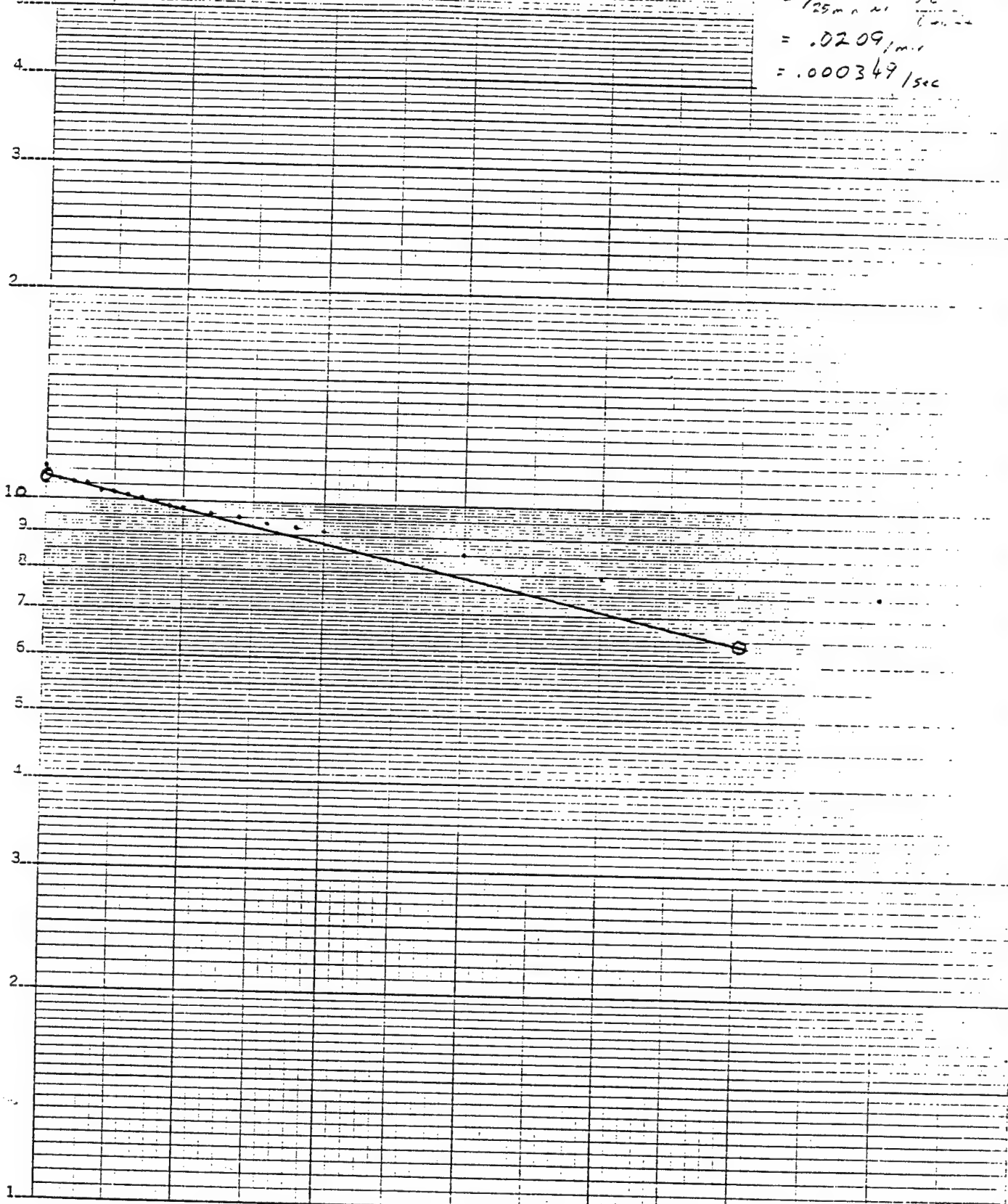
$= .0008 \text{ min}^{-1}$

$= .00111 / \text{sec}$

100

Selfridge ANG Base, MS.  
 East Ramp  
 W-2  
 Tested: 2-8-88  
 Slope =  $\left[ \frac{1}{2} \ln \frac{Y_1}{Y_2} \right]$   
 $= \frac{1}{25} \ln \frac{10.5}{6.0}$   
 $= .0209 / \text{min}$   
 $= .000349 / \text{sec}$

$Y_1$  (FEET)



Selfridge ANG Base 42

En - R. 1000

12-7

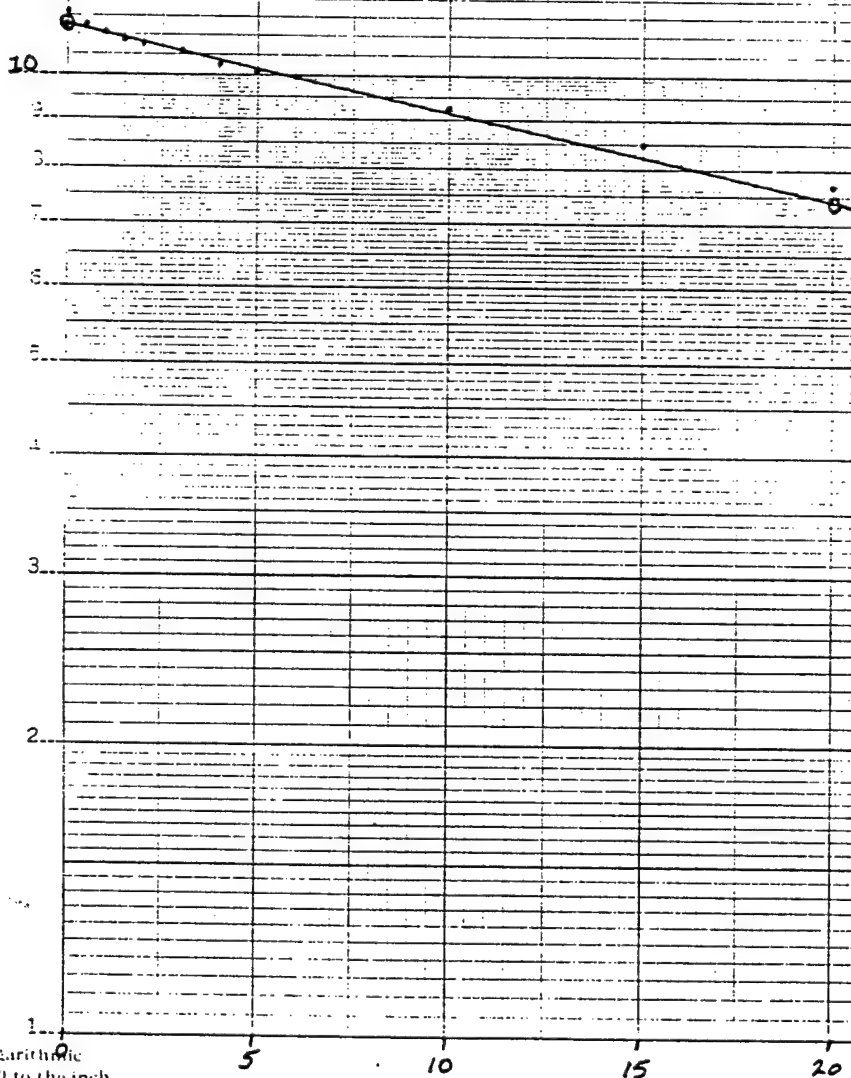
1-23-88

1-23-88

= 40 min En  $\frac{11.25}{7.40}$

= .0209/min

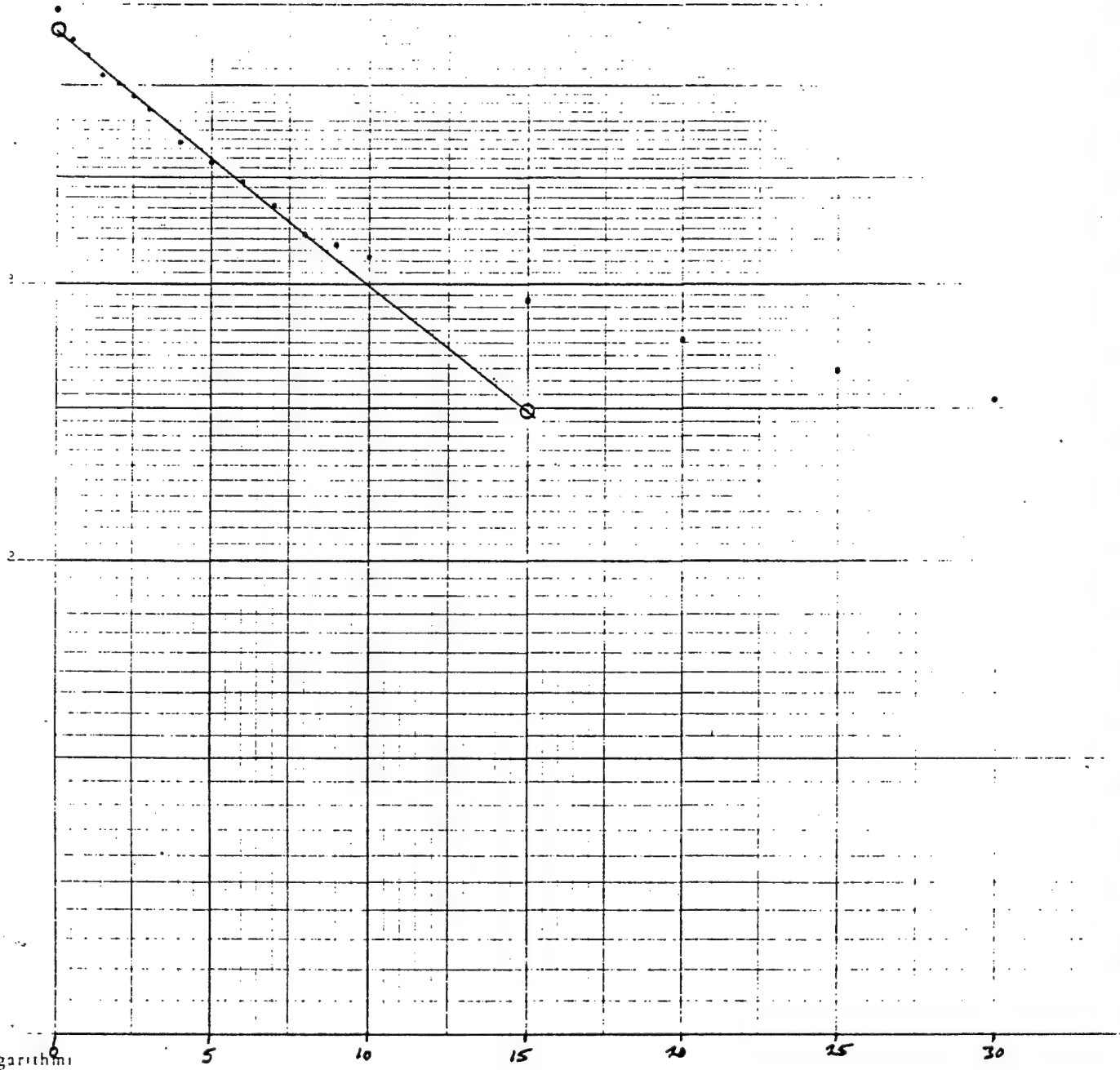
= .000347/sec



11-30

Sellingo ANG Base, ME  
 East Ramp  
 W-4  
 Tested: 1-24-88  
 Slope =  $\left[ \frac{1}{t} \ln \frac{y_0}{y_t} \right]$   
 $= \frac{1}{15 \text{ min}} \ln \frac{4.3 \pm 0.5}{2.47 \pm 0.4}$   
 $= .0370 / \text{min}$   
 $= .000617 / \text{sec}$

$y^t$  (Feet)



Semi-Logarithmic

I-54

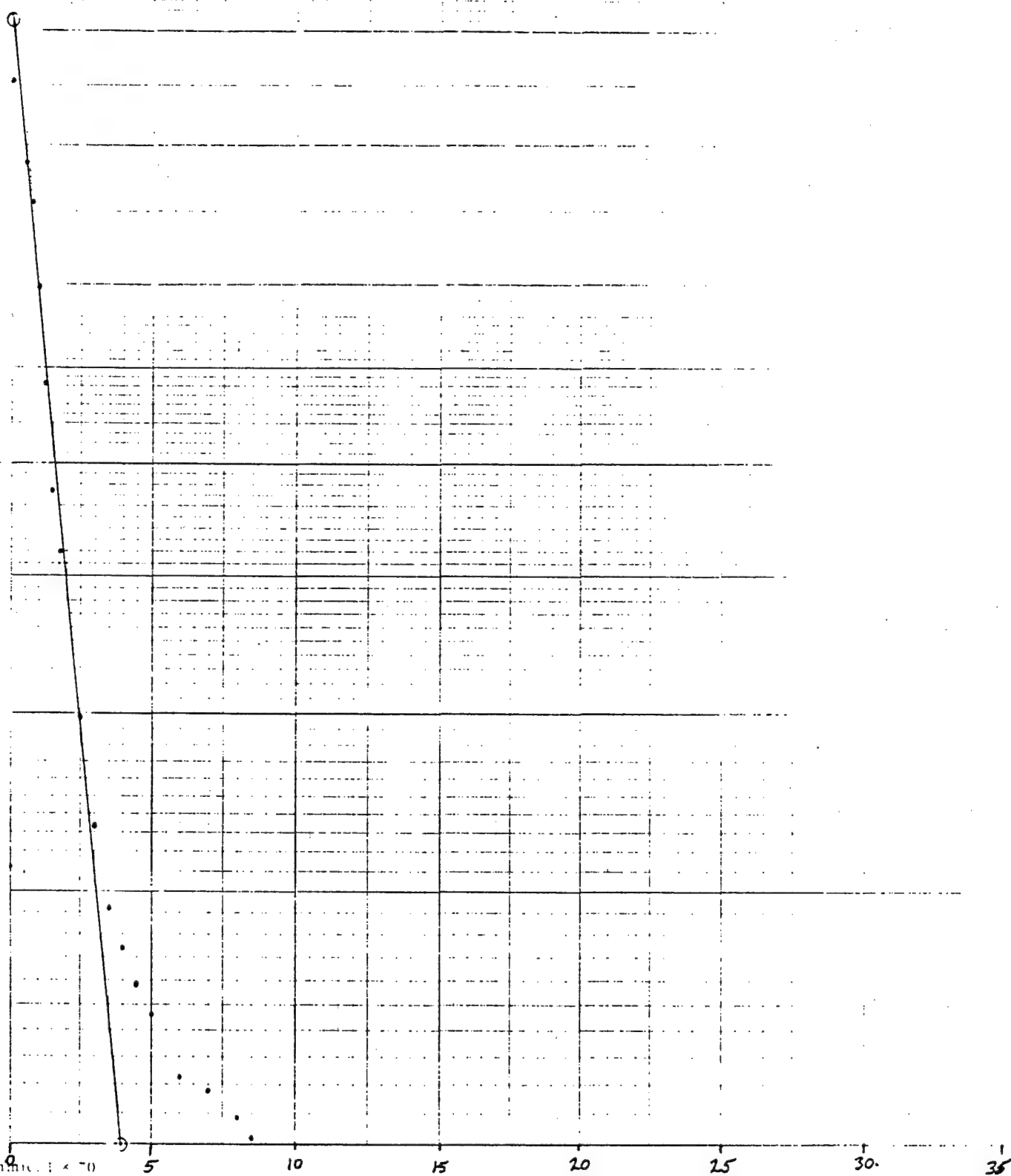
Time (Minutes)



11-20

Selfridge ANG Base MT  
 East Ramp  
 W-36  
 Tested 1-23-88  
 Slope =  $\left[ \frac{1}{4} \ln \frac{y_0}{y_t} \right]$   
 $= \frac{1}{4} \ln \frac{6.10 \text{ in}}{1.00 \text{ in}}$   
 $= .4520 / \text{min}$   
 $= .00753 / \text{sec}$

(F...)



Self-Healing ANCE-11

East River

W-37

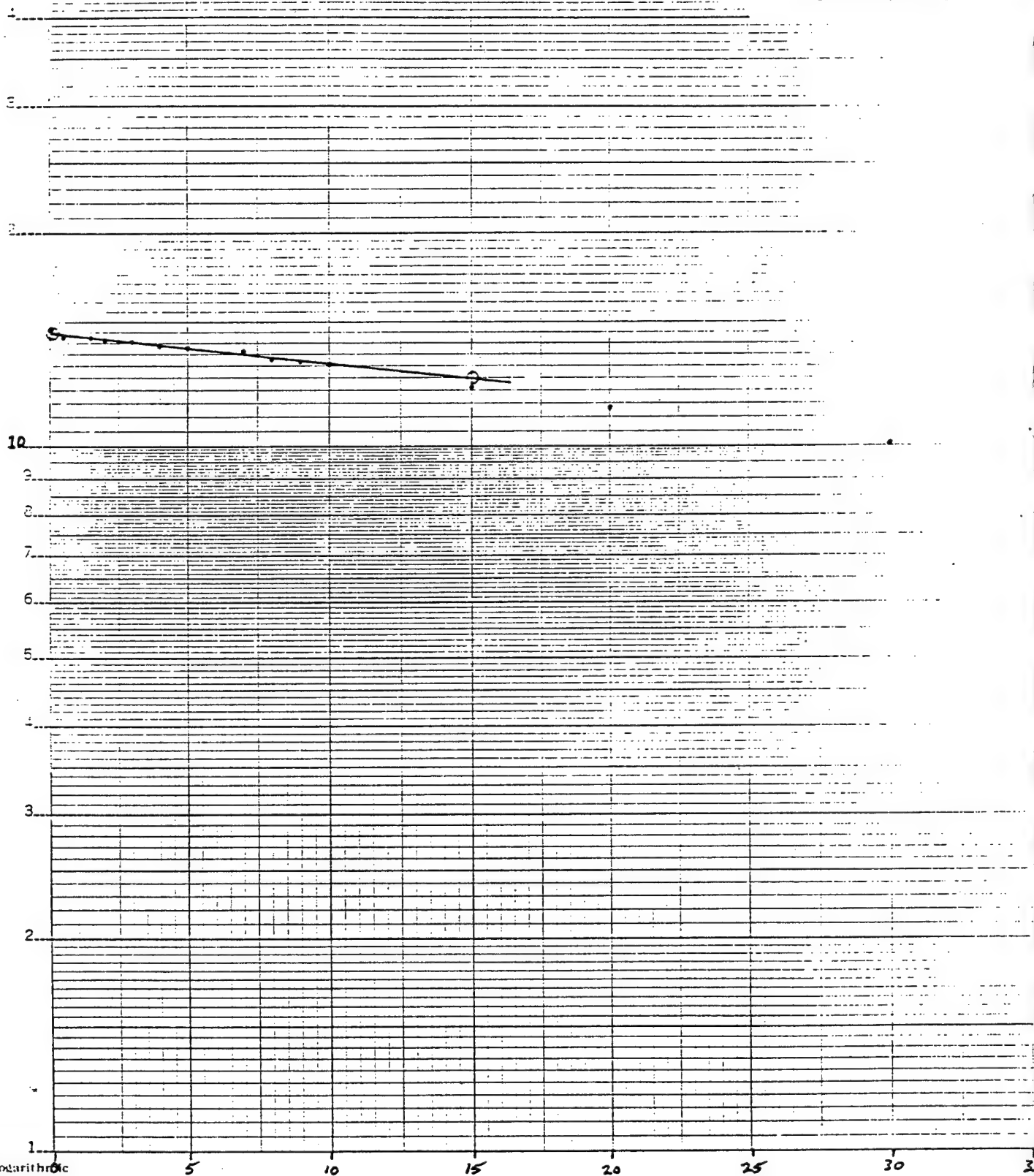
Tested 1-23-88

Slope  $\left[ \frac{y}{x} \right]$ 

$$= \frac{1}{15 \text{ min}} \times \frac{14.50 \text{ ft}}{12.50 \text{ ft}}$$

$$= .0099 \text{ /min}$$

$$= .000165 \text{ /sec}$$

y<sup>r</sup> (Feet)Semi-Logarithmic  
2 Cycles x 10 to the 10

I-56

Time (Minutes)

Selfridge ANGB, MI

East Ramp

07-138

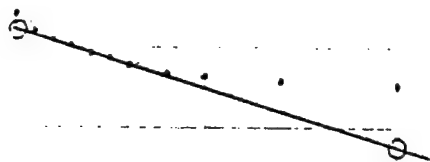
Tested 5/17/88

Slope =  $[\frac{1}{4} \ln \frac{1}{4}]$

$[\frac{1}{10} \ln \frac{5.60}{4.90}]$

= .0133 /min

= .000222 /sec



Selfridge ANG Base, MI

East Ramp

07-239

Tested: 3-24-87

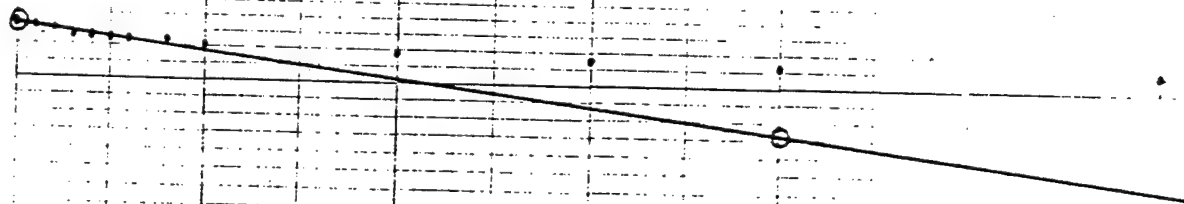
Slope =  $\left[ \frac{1}{20} \ln \frac{Y}{Y_0} \right]$

$= \left[ \frac{1}{20} \ln \frac{26.20}{23.60} \right]$

$= .00617 \text{ /min}$

$= .000103 \text{ /sec}$

Y (feet)



Selfridge ANGB, MI

East Ramp

07-140

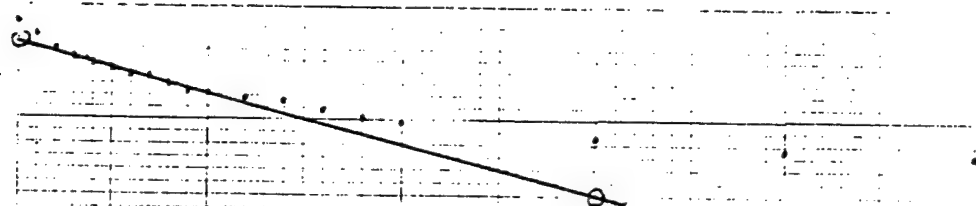
Tested 5/18/88

Slope =  $\left[ \frac{1}{t} \ln \frac{y_0}{y_t} \right]$

=  $\left[ \frac{1}{15} \ln \frac{3.82}{3.20} \right]$

= .0118 1/min

= .000197 /sec



Self-healing ANE Pave, 112  
East Ramp

W-41

Tested 2-9-88

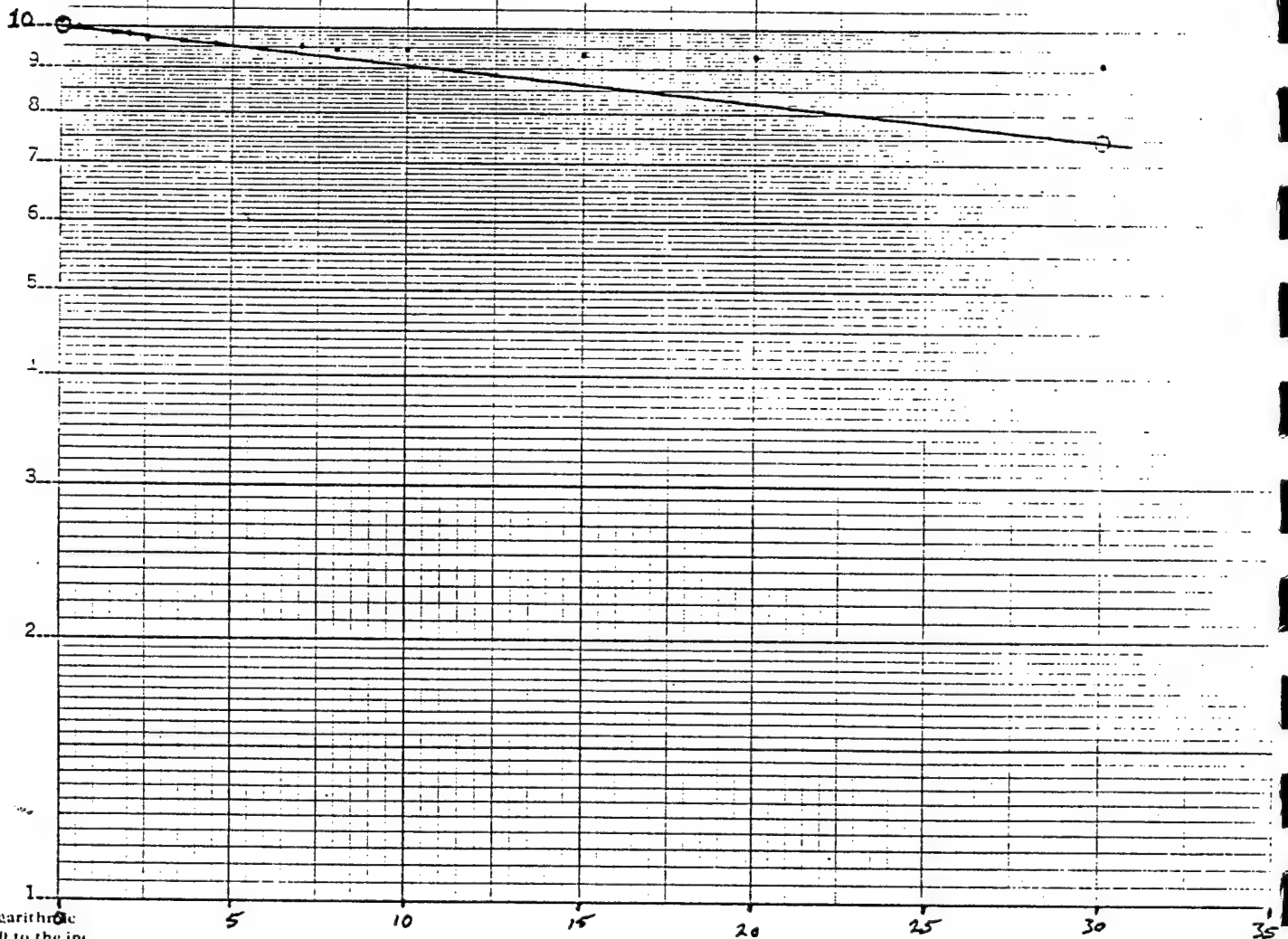
Slope =  $1\frac{1}{4}$  to  $1\frac{1}{2}$

=  $\frac{1}{30}$  in.  $\frac{10.00 \text{ ft}}{7.45 \text{ ft}}$

= .000981/min

= .00016+

$y^+$  ( $F_{cd}$ )



Selfridge ANG Base, MI

East Ramp

w = 42

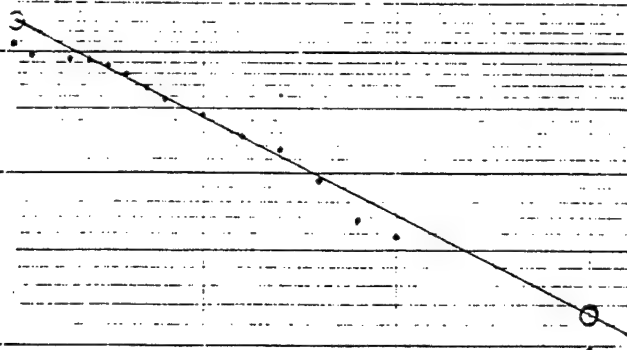
Tested 2-7-88

$\left[ \frac{1}{T} \ln \frac{X_0}{X_T} \right]$

$\left[ \frac{1}{15 \text{ min}} \ln \frac{4.50 \text{ ft}}{1.93 \text{ ft}} \right]$

= .0564/min

= .000740/sec



Selfridge ANG Base, MI

East Ramp

W-43

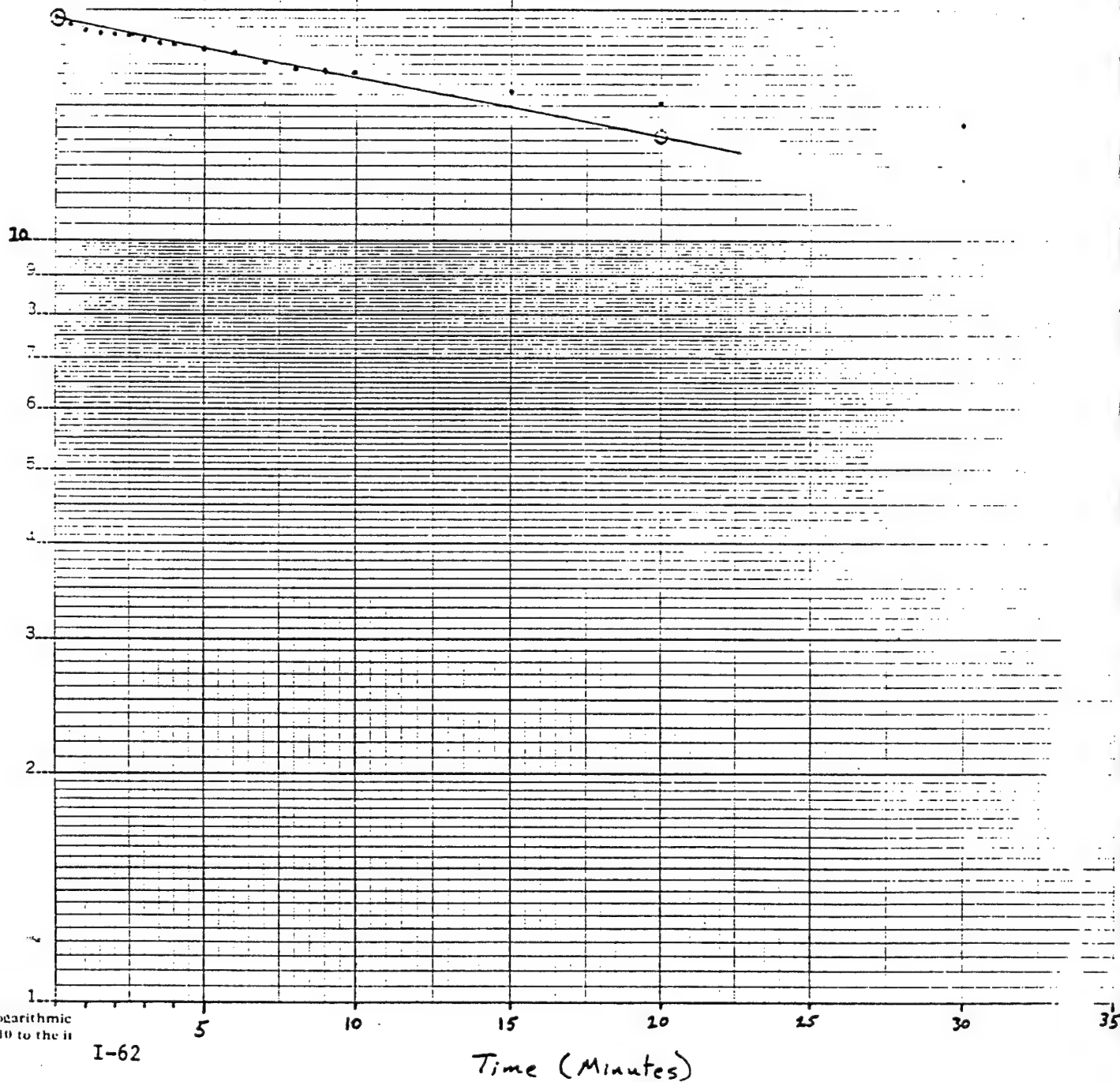
Tested 2-7-58

$$\left[ \frac{1}{t} \ln \frac{y_0}{y_t} \right]$$

$$\frac{1}{20 \text{ min}} \ln \frac{19.62 \text{ ft}}{13.50 \text{ ft}}$$

$$= .0186 / \text{min}$$

$$= .000310 / \text{sec}$$

 $y^+$  (Feet)



26

Selfridges ANG Base, ME

Coal Storage Area

U-26

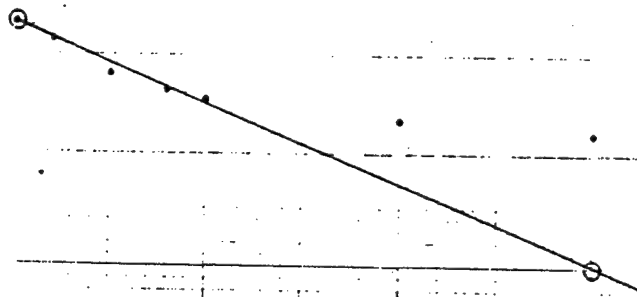
Tested: 2-2-88

Slope = -0.1

$$= \frac{1}{100} \times \frac{1.57 \times 10^4}{35.4}$$

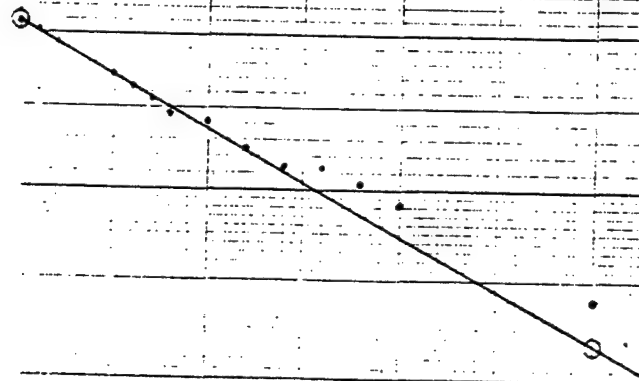
$$= .0192 \text{ in.}$$

$$= .000320 \text{ in.}$$



Sealed Air Base RT  
 1000 - 1000 - 1000  
 1000 - 1000  
 Tested 2-2-88  
 Slope  
 = 1/50000  
 = 0.025/min  
 = 0.000450/100

$y^t (Feet)$



ridge ANG Base

Coal Storage Area

W-21

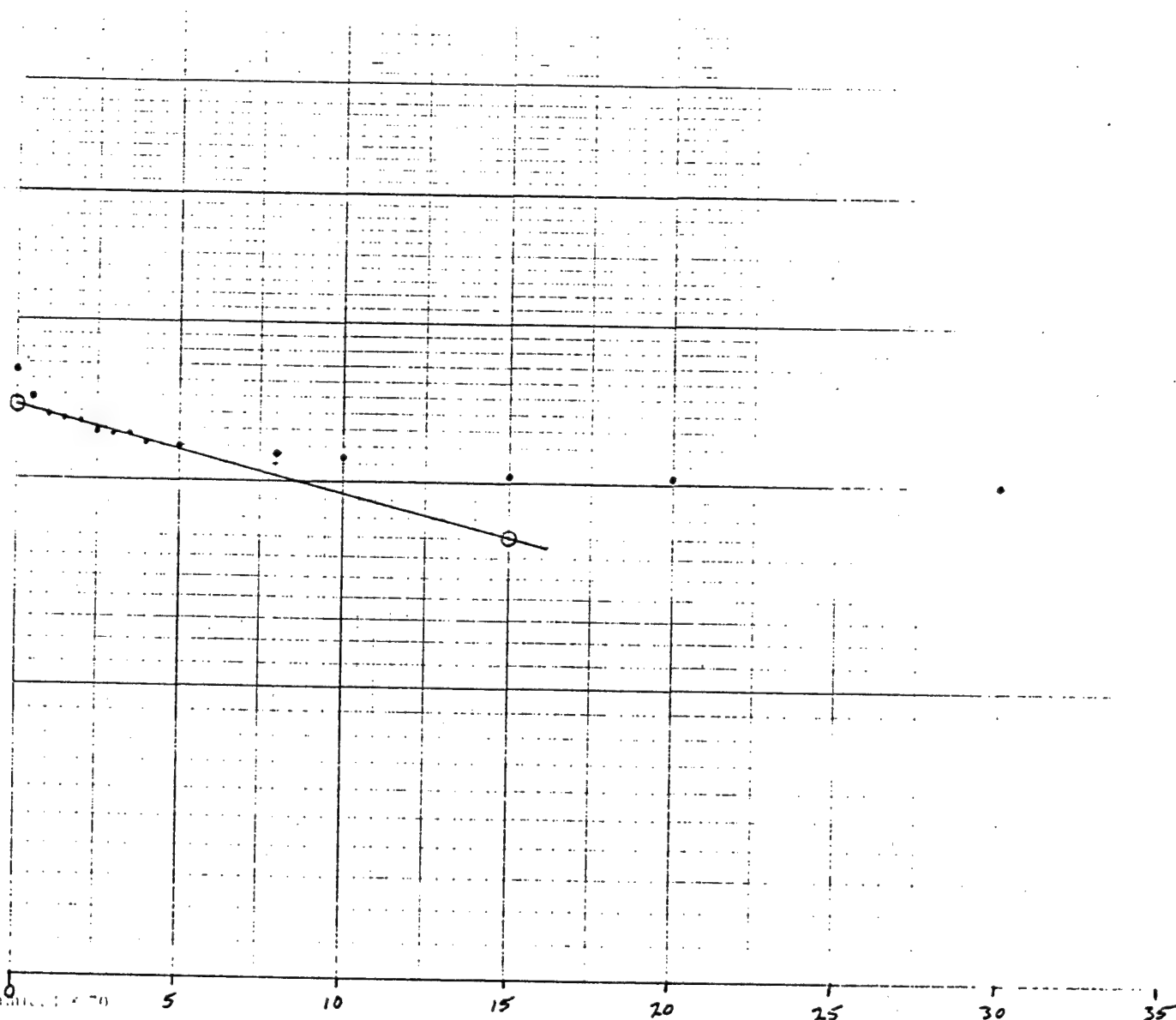
2-2-88

1/5 min

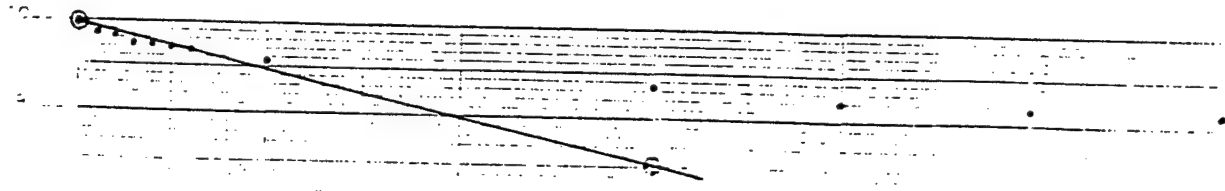
$\frac{1.35}{1.35}$

= .0119/min

= .000198/sec



$y^+$  (Feet)



Selfridge ANG Enc., 11

Top Surface Area

W-29

Tested: 2-2-88

Slope = 1.5 in

= 1.5 min  $\ln \frac{10000}{8.500}$

= .0108/min

= .000181/sec



## APPENDIX J

# GROUNDWATER AND SURFACE WATER SAMPLING DOCUMENTATION

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD ~~SL-12200~~ LOG DATE 4/15/98 LOG TIME 1700  
 LOCATION ID SLFRD ~~SL-12200~~ 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 122-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.31  
 SAMPLING PERIOD: START 1115 4/16/98 COMPLETE 1145  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD DTB-245 vol. = 3.58 gal  
 COMMENTS Duplicate sample taken

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
1700	0.0	0.0	-	-	-	START PUMPING
1730	3.0		6.90	1325	12	very salty brine
1745	3.0		6.90	1325	11	" "
1800	3.0		6.90	1324	11	" "
1815	3.0					Well is bailed, to a 1" diameter bailer must be used. It seems this bailer will not clean the silt out of well like the regular bailer. Also well not head well dry.

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

SLFRD  
123 OF

INSTALLATION ID DT-122 LOG DATE 4/5/88 LOG TIME 1430  
 LOCATION ID Sanborn Landfill 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 123-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.84  
 SAMPLING PERIOD: START 0700 4/6/88 COMPLETE 0910  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 3.84 DTB 22.87 vd 3.17

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
1430	0.0	0.0	-	-	-	START PUMPING
1445	3.0		6.10	1075	8°	water heavily lotted, brown
1500	1.0 (deg)		6.25	1100	10°	" " (deg)
						Well allowed to sit over night to recharge

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID 21-125<sup>KTF</sup> LOG DATE 4/5/88 LOG TIME 1535  
 LOCATION ID Southwest landfill<sup>15F</sup> LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 125-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 4.62'  
 SAMPLING PERIOD: START 0800 4/6/88 COMPLETE 0810 4/6/88  
 SAMPLING METHOD B LOGGER CODE GSK/KTF<sup>RFW</sup>  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD DTB 22-22 val 3-78  
 COMMENTS \_\_\_\_\_

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
1540	0.0	0.0	-	-	-	START PUMPING
1550	3.0		625	1025	11.5	
1605	6.0		635	1800	13.0	heavily salted
1610	2.0					Dry
						This well was allowed
						to sit overnight so it
						would recharge

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE      LB - LAB BLANK  
 K - KNOWN      N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
 B - BAILER      AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

**PAGE 1 OF 2**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLRD LOG DATE 4/5/88 LOG TIME 1530

LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE N SAMPLE ID 158-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.85

SAMPLING PERIOD: START 0930 4/6/88 COMPLETE 0940

SAMPLING METHOD T3 LOGGER CODE RFW

LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DT3 16.18 12.33 4.167 = 2.06 gal x 3.12 = 6.20

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume				
	0.0	0.0	-	-	-	START PUMPING
1550	9.0		5.05	2750	10	Severe odor
			5.10	2625	10.5	very silty
			5.20	2200	10.0	

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE          LB - LAB BLANK  
K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
B - BAILER                  AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID 4FRD 259 LOG DATE 4/5/88 LOG TIME 1320  
 LOCATION ID SW Landfill 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 259-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 8.60  
 SAMPLING PERIOD: START 1035 4/12/88 COMPLETE 1055 4/12/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DJB 37.82 4.9 g/L x 3 = 14.7 g/L  
DW 8.60  
29.22

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
1320	0.0	0.0	-	-	-	START PUMPING
1330	3.0		9.5	1800	14°	Very Dirty heavy silt.
1345	3.0		9.9	1700	10.5°	
1355	3.0		6.65	1750	13°	Clearing up a little
1400	1.0		6.20	1775	13.5°	Dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

PAGE 1 OF 2

INITIAL GROUNDWATER DEPTH (FT) 3.66  
SAMPLING PERIOD: START 1045 4/6/88 COMPLETE 1055  
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS DTW 3.66 ~ 3.0 gal  
DTD 20.89 x 3 = 12 gal  
7.73

DETECTION  
LIMIT

				UNIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/5/88 LOG TIME 0920  
 LOCATION ID 7th Land E. 11 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 261-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 9.62  
 SAMPLING PERIOD: START 1125 4/12/88 COMPLETE 1136  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 9.62 ~4.3 gal.  
DTB 35.87 x3 = 12.9 gal  
26.25

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	Bore Volumes				
0920	0.0	0.0	-	-	-	START PUMPING
0930	3.0		7.45	2800	11	Slightly silty, cloudy
0940	3.0		7.40	2600	10	" "
0950	3.0		7.45	3000	11	gets silty as well goes / by
0955	1.0 (by)					

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	



**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 3.81  
SAMPLING PERIOD: START 1200 4/6/88 COMPLETE 1215  
SAMPLING METHOD 3 LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS DZB 17.92 1411 x .167 = 2.35 g/l x 3 vol = 7.1 gal  
RFW 3.81  
14.11

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



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J-12

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SAMPLE TYPE N SAMPLE ID 164-M001 SAMPLE DEPTH (FT.)           

COMMENTS DTB 17.88  $14.67 \times .167 = 2.45 \times 3 \text{ v. l} = 74 \text{ gals}$

ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		
---------------------------------	-----	------	--	--

SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD 02-166 LOG DATE 4/6/88 LOG TIME 1550  
 LOCATION ID ECG pit #17 LOT CONTROL NO. 02  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 166-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.90  
 SAMPLING PERIOD: START 0930 4/7/88 COMPLETE 0940  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB 1.92 = 2.67 gal x 3 = 8.02 galls.  
DTW 3.52  
16.22

FINAL PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volume)				
1400	0.0	0.0	-	-	-	START PUMPING
1605	3.0		6.95	1225	8°	W. to silt, low.
		GR			8.5°	
1612	3.0		6.90	1200	8.5°	" "
1620	3.0		7.00	1400	9.0	Water even siltier to side
						bottom. Well went dry
						after 9 gals. Well will
						probably have to let new
						night before it can be
						re-sampled

**SAMPLES TYPES: (WSACODE)**

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

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INITIAL GROUNDWATER DEPTH (FT) 2.25  
SAMPLING PERIOD: START 1640 COMPLETE 1645  
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS DT B = 26.81 vol 4.10 <sup>65%</sup> gal (x3) = 12.3 <sup>Gal</sup> gal  
4.16 13.5

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	$\text{mg/l}$	_____	_____

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADOER PUMP
SL - SUCTION LIFT PUMP	

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/7/88 LOG TIME 1415  
 LOCATION ID 03-11866 03 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 118-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 2.63  
 SAMPLING PERIOD: START 1725 COMPLETE 1730  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB = 27.67 var = 4.18 gal (x3) = 12.54 gal.

## FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
1505	0.0	0.0	-	-	-	START PUMPING
1508	3.0		6.85	700	8	Slightly H. ben.
1515	3.0		6.95	780	9	slight dry
1520	1.0		7.05	725	9	dry muddy

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 1030  
 LOCATION ID 04-111 (WRMP) LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 111-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 1.81  
 SAMPLING PERIOD: START 1500 4/11/88 COMPLETE 1506 4/11/88  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFU  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW <sup>002</sup> 21' 9 3/4" (1.91') DTB 27' 5 3/4" (27.48') CVA 970 ppm  
Column 25.67' = 4.29 gals x 3 = 12.86 purge volume

FINAL PARAMETER MEASUREMENTS: DETECTION LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1058	3		7.80	425	10.5	silty brown, bubbling-methane
1105	3		7.70	425	10.5	silty brown going dry
1113	1		7.80	425	11.8	silty brown well dry
1556	recovery to approximately 16.1 feet					
1607	3		7.90	455	13.0	silty brown well dry

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE      LB - LAB BLANK  
 K - KNOWN      N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
 B - BAILER      AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRJ LOG DATE 4/10/88 LOG TIME 1225  
 LOCATION ID 04-112 (WRMP) LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N, MS, MSD SAMPLE ID 112-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.29  
 SAMPLING PERIOD: START 0920 4/11/88 COMPLETE 0938  
 SAMPLING METHOD B LOGGER CODE RFW/SDO/KF  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 3' 3 1/2" (3.29') DTB 27' 5 1/2" (27.46') OVA < 1000 units  
Column 27.17 = 4.04 gals x 3 = 12.1 purge volume

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1252	3		6.95	770	12.0	Black silty, organic smell
1300	3		7.05	750	12.25	Black silty, with slight odor
1308	1		7.30	750	12.50	Black silty. Dry well
1621	Recovery to		8.7	feet approximately		
1627	3		7.00	780	12.01	Brown silty
1638	2.5		7.05	750	12.5	Well dry Brown silty water

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE April 9, 1988 LOG TIME 1006  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 113-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 2.46  
 SAMPLING PERIOD: START 1005 4/12/88 COMPLETE 1011 4/12/88  
 SAMPLING METHOD B LOGGER CODE RFW / TDU / K4  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_

COMMENTS OVA > 1000 units CGI 95% LEL DTW = 2.46', 2.47', 2.47' DTB 27.52

Minimum storage vol. = 13.0 gals  
water removed 3.0 gals - 3.0 gals

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
	0.0	0.0	-	-	-	START PUMPING
1025	3.0		11.5	450	10.9	Light gray, brown and slightly cloudy
1034	3.0		11.35	430	10.2	Light gray (brown and cloudy, turbid)
1205	3.0		9.05	370	12.3	Brown and cloudy (well dry)
1115	2.0		8.75	325	12.0	Brown + cloudy (well dry)

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

## GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 0940  
 LOCATION ID 04-115 (West Ramp) LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N, D SAMPLE ID 115-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 384ft  
 SAMPLING PERIOD: START 1440 4/11/88 COMPLETE 1451 4/11/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 3' 10 1/2" (3.84') DTB 27' 5" (27.42') GVA <1000 ppm  
Column 23.58' = 3.94 gals x 3 = 11.8 volumes purge.

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1005	3		7.95	435	10	silty brown
1015	3		7.75	430	9.8	silty brown - going dry
1020	1		7.70	420	10.2	silty brown - dry
1535			recharged to 17.5' (approximately)			
1547	2.75		7.75	485	13.0	silty brown - dry

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE      LB - LAB BLANK  
 K - KNOWN      N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
 B - BAILER      AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

Ground  
SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 8, 1988 LOG TIME 0944  
 LOCATION ID 04-148 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE Flow SAMPLE ID 148-M001 SAMPLE DEPTH (FT.) 5.44 DTW  
 SAMPLING PERIOD: START Purge 09:25 COMPLETE DT Bottom 17.68 before purge 12.24  
 SAMPLING METHOD B LOGGER CODE JD0/RFW Total  
Cdum  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS OVA reading 25 units in well. Background (no  
detection) in breathing zone. Water brown and cloudy  
water removed 3.0, +3.0 +3.0 April 9 water removed 2.0 gals

PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.7.2/6.95/7.5/7.7</u>
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>308/340/340/380</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	<u>7.0/7.0/7.0/9.5</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

→ Sent sampling 4/12/88 0945 Complete 4/12/88 0951

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE      LB - LAB BLANK  
 K - KNOWN      N - NORMAL

SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
 B - BAILER      AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 1125  
 LOCATION ID 04-249 (WRMP) LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 249-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 4.09  
 SAMPLING PERIOD: START 1520 4/11/88 COMPLETE 1526 4/11/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 4' 1 1/2" (4.09) DTB 27' 10 3/4" (27.90) OVA < 1000 ppm  
Column 23.81 = 3.98 gals x 3 = 11.93 purge volume

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	°C	_____	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1150	3		7.0	780	12.0	gray silty
1200	3		7.1	770	12.5	slightly silty
1206	3		7.2	790	12.6	gray slightly silty going dry
1220	2		7.5	810	13.0	slightly silty dry
1621						Recovery to 23.5 feet approximately
1655	2.5		7.25	805	13.0	slightly silty

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADOER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLERD LOG DATE April 10, 1988 LOG TIME 1235  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 150-MB01 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.82ft  
 SAMPLING PERIOD: START 1045 4/11/88 COMPLETE 1051 4/11/88  
 SAMPLING METHOD B LOGGER CODE RFW/JDO/KF  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Initial DTW 3.82ft, 3.82 DTB=17.92ft Min three volumes = 7.5 gals

## FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1243	3.0		7.05	1200	9.50	water brown and cloudy
1247	3.0		7.05	1200	9.10	water brown and cloudy
1254	2.5		7.10	1200	9.9	heavy silt / well dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

Start purging ~~16~~ 16 45 hrs

DTW 5.40 ft  
DT B 30.90 ft

INSTALLATION ID SLFED LOG DATE April 7, 1988 LOG TIME 1430  
LOCATION ID 04-251 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE MW SAMPLE ID 251-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: Sampling April 9, 1988 START 1340 COMPLETE April 9, 1988  
SAMPLING METHOD B LCGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
COMMENTS Volume purged 12.3 gals - purging ended 1701 Water brown and cloudy  
Sample water clear to slight white/milky color

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>9.6/9.55/9.42/9.42</u>
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>340/345/341/341</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	<u>10.0/10.0/9.9/9.9/10.0</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE      LB - LAB BLANK  
K - KNOWN      N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
B - BAILER      AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE April 9, 1988 LOG TIME 0915  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 152-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 12.60 ft  
 SAMPLING PERIOD: START 0915 4/13/88 COMPLETE 0925 4/13/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DVA reading 10-20 units down well, DTW 12.60f / 12.61 / 12.60  
DTB = 19.78 ft Need to remove 2-3 gal for min three vol

## FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	EH	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
0930	0.25		7.9	450	9.0	Purge method (B) Gray + cloudy
0935	<del>1.25</del> 1.00		8.2	445	9.0	Water purged brown light, cloudy
0940	1.50		8.1	450	9.0	light brown and cloudy

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 8, 1988 LOG TIME 1414  
 LOCATION ID 04-253 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 253-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: Sampling April 9, 1988 START 1407 COMPLETE April 9, 1988 1418  
 SAMPLING METHOD B LOGGER CODE RFU  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 6.39ft / DTW 6.39ft / DTW 6.39ft / DTB 37.8ft / DTB 37.8ft  
Min. three volumes is 15 gals Volumes removed: 30 gals + 30 gals + 30 gals + 30 gals  
37.8 Sample water was clear April 9, 1988 30 gals + 30 gal + 30 gal + 30 gal  
6.39 with a slight brown cast + 30 gal + 30 gal  
31.41

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.71/6.85/7.2/7.1/7.2</u>
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>700/690/710/690/680</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	<u>12.5/12.0/12.5/12.0/11.5</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

BP - BLADDER PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/9/88 LOG TIME 1005  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 255-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.0  
 SAMPLING PERIOD: START 1519.5 1530 4/10/88 COMPLETE 1537  
 SAMPLING METHOD P LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB = 35.75 rel 5.13 (x3) = 15.4 gal

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
1205	0.0	0.0	-	-	-	START PUMPING
1220	6.0		7.5	900	7.5	Very Salty
1230	3.0		7.5	900	7.5	"
1040	3.0		7.5	910	9.5	"
1150	1.5		7.4	975	11.5	"

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/11/88 LOG TIME 1229  
 LOCATION ID 05-105 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 105-m001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT.) 3.57 ~~4/12/88~~  
 SAMPLING PERIOD: START 0840 4/12/88 COMPLETE 0853 4/12/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 3.57' DTB 32.07' <sup>crk</sup> 26.79 OVA 21000 ppm  
column 23.22 = 3.88 gals \* 3 volume = 11.63 purge volume

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1255	3		7.05	2350	11.5	silty brown
1312	3		7.05	2270	11.5	silty brown
1320	1.5		6.98	2120	12.0	silty brown well dry
	1737	Recovery to 4.5 feet approximately				
1742	3		7.20	2890	10.5	silty brown
1750	3		7.20	2740	12.0	silty brown, well dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/10/88 LOG TIME 14:44  
 LOCATION ID 05-107 (TCLE) LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 05-107-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 4.71  
 SAMPLING PERIOD: START 0945 4/23 COMPLETE 1000  
 SAMPLING METHOD B LOGGER CODE RFU  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 4'8 1/2" (4.71') DTB 27'4" (27.02) OVA 25 uni  
Column 22.31 = 3.73 gal \* 3 = 11.18 gal purge volume.

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	1570	-	START PUMPING
1513	3		6.85	1057	12.0	silty brown
1523	2.5		7.15	1520	12.5	silty brown, dry
	4/10	1033	Approximate recovery to 14.5'			
1547	3		7.5	2250	10.5	silty brown well dry
				1580		
1710	4/11	1710	Approximate recovery to 20.4'			
1727	1.5		7.4	1570	10.8	silty brown, well dry
4/12 1414	Well recovery to 8.51' S.S.1'					
1444	3.0		6.95	1580	10.8	silty brown
1452	3.0		7.05	1550	11.5	silty brown, well dry
4/23 0941	Well recovered to 16.8 feet.					

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE    FB - FIELD BLANK  
 R - REPLICATE    TB - TRIP BLANK  
 S - SPIKE        LB - LAB BLANK  
 K - KNOWN        N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                    SP - SUBMERSIBLE PUMP  
 B - BAILER                AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/12/88 LOG TIME 0900

LOCATION ID 05-130 LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 05-130-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

05-130-M161

05-130-M401

INITIAL GROUNDWATER DEPTH (FT.) 4.08

SAMPLING PERIOD: START 1330 4/21/88 COMPLETE 1405 4/21/88

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 4.08 DTB 12.29' OVA  
column 8.21 = 1.37 gals x 3 volumes = 4.11 gals purge water

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
<u>4/12/88</u>	<u>0.0</u>	<u>0.0</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>START PUMPING</u>
<u>0920</u>	<u>.50</u>		<u>6.74</u>	<u>1540</u>	<u>8.4</u>	<u>silty brown</u>
<u>0926</u>	<u>.50</u>		<u>6.74</u>	<u>1540</u>	<u>8.3</u>	<u>silty brown</u>
<u>0930</u>	<u>1.50</u>		<u>6.65</u>	<u>1500</u>	<u>8.0</u>	<u>silty brown</u>
<u>0937</u>	<u>3.0</u>		<u>6.65</u>	<u>1480</u>	<u>8.8</u>	<u>silty brown</u>
			<u>buildown test begins.</u>			
<u>4/21/88</u>	<u>DTW</u>	<u>4.80 ft</u>				
<u>0930</u>	<u>.5</u>		<u>6.85</u>	<u>1400</u>	<u>10.0</u>	<u>very silty</u>
<u>0936</u>	<u>2.0</u>		<u>6.80</u>	<u>1300</u>	<u>9.5</u>	
<u>0943</u>	<u>3.0</u>		<u>6.75</u>	<u>1325</u>	<u>9.5</u>	
<u>0950</u>	<u>3.0</u>		<u>6.80</u>	<u>1410</u>	<u>10.0</u>	<u>Disy</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE      LB - LAB BLANK  
 K - KNOWN      N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
 B - BAILER      AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/11/98 LOG TIME 1054  
 LOCATION ID 05-231 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 05-231-m001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 12.01  
 SAMPLING PERIOD: START 1015 4/23 COMPLETE 1030 4/23  
 SAMPLING METHOD B LOGGER CODE REW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 12.01' DTB 35.80' OVA 550 ppm  
Column 24.79' = 4.14 gals x 3 volumes = 12.42 gal purge water

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	°C	_____	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
4/11 1125	3		7.15	2930	11.5	silty gray-brown, tan
1132	3		7.05	2810	10.5	silty gray brown
1148	3		6.90	2890	10.7	silty gray brown
1159	2.5		7.05	3010	11.0	silty gray brown, well dry
		4/12 9:06		Recovery	approximately 28.5'	
4/12 1301	1.75		6.05	3150	12.1	well dry silty brown
4/12 1346		4/18		Recovery	approximately 30.5'	
4/21 0912				Well recovery	to 29.2'	
4/23 1005				Well recovered	to 28.2' feet	

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SEFRD LOG DATE 4/21/88 LOG TIME 1015  
 LOCATION ID 05-132 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 05-132-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.17  
 SAMPLING PERIOD: START 1140 COMPLETE 1200  
 SAMPLING METHOD B LOGGER CODE FEU  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 19.86 - 262 gallons x 3 = 7.86 gal. to be purged  
DTW 3.17 QVA .5 units  
Column 5.69

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
1020	0.0	0.0	-	-	-	START PUMPING
1030	3.0		6.95	1750	8.5	Very S.ely brown
1035	3.0		6.90	1650	9.5	" "
1040	3.0		6.90	1700	10.0	" "
1045	1.5		7.0	1925	10.5	" " Dry
4/12/88 0910	Water recovered to 3.70 feet					
4/22/88	1136	Water recovered to 3.60 feet				

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN           N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/17/88 LOG TIME 0930  
 LOCATION ID 05-233 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 233-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.53  
 SAMPLING PERIOD: START 1350 4/2/88 COMPLETE 1410  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 6.53 DT B 38.35 OVA > 1000 ppm  
Column 31.82 = 5.31 gal x 3 volumes = 15.94 purge volume

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
0930	3		7.6	4850	9.8	silty gray brown
0947	3		7.6	4880	9.3	silty brown
0955	3		7.55	4760	9.6	silty brown
1006	2.25		7.4	4890	9.8	silty brown
						Began slug test
4/31 0933						Well recovered to 5.63 feet
4/24 0950	3		7.75	4870	10.5	silty brown
4/24 0958	3		7.85	4950	10.5	silty brown
1005	3		7.80	4860	11.0	silty brown
1018	3		7.85	4890	11.5	silty brown
1028	1		7.95	4850	11.5	well dry
4/24/88 0910						Well recovered to 23.5 feet

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADOER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 4/12/88 LOG TIME 11:55  
 LOCATION ID 05-134 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 134-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 7.20  
 SAMPLING PERIOD: START 0830 COMPLETE 0850  
 SAMPLING METHOD Teflon Bailer (B) LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 5.84' DTB 17.6' OVA 40 ppm  
Column 11.76 = 1.9 gals x 3 volumes = 5.89 gallons purge volume

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	°C	_____	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	Bore Volume				
	0.0	0.0	-	-	-	START PUMPING
1204	1.5		6.55	1210	9.25	silty brown
1210	3.0		6.45	1180	9.50	silty brown
1215	3.0		6.25	1220	10.5	silty brown
1243	2.0		6.15	1220	11.0	silty brown, well dry
4/13 0828	Water level checked				7.20	Not recharged
						totally dry.

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/11/88 LOG TIME 1230  
 LOCATION ID 05-235 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 235-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.65  
 SAMPLING PERIOD: START 1510 4/12/88 COMPLETE 1424 4/12/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 5.65 DTB 32.07' OVA 700 ppm  
column 26.42 = 4.41 gals x 3 volumes = 13.23 purge volume

FINAL PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1329	3		10.40	1200	11.5	grout contamination, silty brown
1335	3		10.03	1190	11.8	silty brown
1343	3		8.85	1210	12.0	silty brown
1353	2.5		7.25	1320	12.5	silty brown, well dry
	17.37	Recovery to approximately 17.5 feet				
1802	3		7.85	1510	12.8	silty brown well dry

**SAMPLES TYPES: (WSACODE)**

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

**SAMPLE METHODS: (WSMCOOE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

## GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/12/88 LOG TIME 1005  
 LOCATION ID 05-167 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 05-167-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
DT

INITIAL GROUNDWATER DEPTH (FT) 12.08  
 SAMPLING PERIOD: START 1100 4/23/88 COMPLETE 1110 4/23/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 12.08' DTB 19.89 column 7.81 = 1.30 gals  
OVA < 0.25 ppm purge volume = 3 x 1.30 = 3.91 gals

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

PARAMETER	UNIT	VALUE	DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1033	.5		6.85	1970	10.8	silty brown
1037	.5		6.75	1940	10.5	slightly silty
1047	2.5		6.65	2020	10.8	very slightly silty
						Start baildown test at 1047
4/13 1031	2.0		7.15	2080	11.0	silty brown, well dry
4/18 1350						checked recovery - 16.6'
4/21 0908						checked recovery 15.58'
4/22 1526						well recovered to 15.22'
4/23 1035						Well recovered to 14.82'

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/8/88 LOG TIME 1045  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 108-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 4.75  
 SAMPLING PERIOD: START 1600 COMPLETE 1615  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB = 26.14 vol = 3.57 gal (x3) = 10.7 gal

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

*Hnu 862 unit reading Good*

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	Bore Volume				
1040	0.0	0.0	-	-	-	START PUMPING
1050	3.0		6.90	900	8.0	Very S.H.f
1100	2.0		6.85	950	8.5	"
1110	3.0		7.0	750	8.0	" Dry
1130	4.0		6.85	1000	8.0	" Dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADOER PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/8/88 LOG TIME 0830  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 110-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.03  
 SAMPLING PERIOD: START 1640 4/8/88 COMPLETE 1730 4/8/88  
 SAMPLING METHOD B LOGGER CODE RFN  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB = 27.99 val 3.83 gal (x3) = 11.5

## FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

*NAL = BG*

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
<i>0845</i>	0.0	0.0	-	-	-	START PUMPING
<i>0850</i>	<i>3.0</i>		<i>6.85</i>	<i>775</i>	<i>9°</i>	<i>Humidity settled</i>
<i>0900</i>	<i>3.0</i>		<i>6.90</i>	<i>775</i>	<i>9°</i>	" "
<i>0905</i>	<i>3.0</i>		<i>6.85</i>	<i>750</i>	<i>9.5°</i>	" "
<i>0915</i>	<i>3.0</i>		<i>6.95</i>	<i>750</i>	<i>9.0</i>	" "
						<i>* did not go by</i>
<i>Total</i>	<i>12.0 gal</i>					

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/10/85 LOG TIME 0825  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 245-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.75'  
 SAMPLING PERIOD: START 1453 4/10/85 COMPLETE 1511  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_

COMMENTS OTB 37.46 5.12 ga 3 - 1538  
H/V Twaits initial OTW 6.75'

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
<del>0825</del> <del>0845</del>	0.0	0.0	-	-	-	START PUMPING
0845	3.0		8.15	435	8	heavily turbid
0855	3.0		7.95	430	9.5	" "
0905	3.0		7.85	430	10	" "
<del>0915</del> <del>0925</del>	<del>3.0</del>		7.85	410	10	" "
						Went dry 2 times
total	12.0 gal					

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE    FB - FIELD BLANK  
 R - REPLICATE    TB - TRIP BLANK  
 S - SPIKE        LB - LAB BLANK  
 K - KNOWN        N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

4/9/88

INSTALLATION ID SLFRD LOG DATE 4/9/88 LOG TIME 08:45  
 LOCATION ID 06 114-1F LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 144-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.42'  
 SAMPLING PERIOD: START 1340 COMPLETE 1400  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB 19.85 = 2.74 x 3 = 8.2 gal.  
HNV = 6 initial DTW 3.42  
16.43

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
0845	0.0	0.0	-	-	-	START PUMPING
0855	3.0		7.0	675	7.5	Very Silty
0905	3.0		6.5	700	7.0	
0915	9.0		7.0	660	7.5	dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

**PAGE 1 OF 2**

INSTALLATION ID SLFRD LOG DATE April 10, 1988 LOG TIME 1056  
LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 146-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 4.26  
SAMPLING PERIOD: START 1015 4/4/88 COMPLETE 1035  
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

### PRESERVATION METHOD

COMMENTS  $Q_{HNu}$  9.0 units initial DTW = 4.76 ft 4.25, 4%. DTB 17.90 ft  
Minimum phase volumes  $\approx 7.0$  gal

**FINAL PARAMETER MEASUREMENTS:**

## POTENTIAL OF HYDROGEN

**pH**

**S.U.**

**SPECIFIC CONDUCTANCE**

SC

 $\mu\text{mhos/cm}$ 

## REDOX POTENTIAL

## En

myoils

## TEMPERATURE

TEMP

•C

ALKALINITY ( $\text{CaCO}_3$ )

**ALK**

mg/l

DETECTION  
LIMIT[illegible]

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFKD LOG DATE 4/8/88 LOG TIME 0830  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 247-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.25  
 SAMPLING PERIOD: START 1410 COMPLETE 1420  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB = 29.04 val = 3.97 gal (x3) = 11.91 gal

## FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
0845	0.0	0.0	-	-	-	START PUMPING
0850	3.0		7.35	4600	9.5	heavily tilted
0900	3.0		7.25	475	10.0	"
0910	3.0		7.20	600	9.5	"
0925	4.0		7.25	600	10.0	" Dry

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

## GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD 07-cwr LOG DATE 4/22/88 LOG TIME 0928  
 LOCATION ID 07-102 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 07-102-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT.) 6.38  
 SAMPLING PERIOD: START 1555 COMPLETE 1600  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 6.38 DTB 27.75 OVA 900 units  
column 21.37 = 3.57 gals x 3 volumes = 10.70 gals purge water

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}$ C	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu$ mhos/cm)	TEMP. ( $^{\circ}$ C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1007	3		7.05	320	10.0	silty brown, black sand
1013	2		7.45	310	9.75	black silty brown, going dry
1028	1		7.45	305	10.0	silty brown, well dry
1055	2		7.05	320	10.0	silty brown, well dry again
1355	2		7.05	320	12.0	silty brown
1445	well reseed		7.0	30.4		ready to sample

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLERD LOG DATE 4/19/88 LOG TIME 0900  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 103-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.86'  
 SAMPLING PERIOD: START 0830 4/20/88 COMPLETE 0835 4/20/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD DTB = 2491  
 COMMENTS DTB-2491 vol = 3.18 gal (x3) = 9.54 gal  
DTB = 11.2 gal

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
1012	0.0	0.0	-	-	-	START PUMPING
1015	3.0		7.2	1250	11.5	heavily milled
1017	1.5					(dry)
1500	3.0		7.2	1375	12	heavily milled
1505	1.0		7.2	1375	12	(dry)

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BR - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 4.00  
SAMPLING PERIOD: START 0830 4/21/88 COMPLETE 0840 4/21/88  
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS DTB - 25.05" x 167. 318 gal x 3 = 9.55 gal to be purged  
DTB - 4.00 MA 200 ppm  
18.05"

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

[illegible]

**SAMPLE METHODS: (WSMCODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	





# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/21/88 LOG TIME 1039  
 LOCATION ID 07-237 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 07-237-4001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT.) 7.24  
 SAMPLING PERIOD: START 1410 COMPLETE 1620  
 SAMPLING METHOD B LOGGER CODE RF61  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 7.24' DTB 40.92' OVA > 1000 ppm  
Column 33.68' = 5.62 gals x 3 volumes = 16.87 gals purge water

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	°C	_____	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1105	3		8.90	330	17.0	silty gray, very
1117	3		8.35	320	16.5	very silty gray
1131	3		8.05	325	16.0	very silty gray
1142	3		8.25	310	15.5	very silty gray
1150	3			300	15.0	very silty, well dry
4/22 0847		Recovery to		10.13	ft	
4/22 1205		Recovery to		9.65	ft	ready to sample
						Sample very heavy silt lots of bubbles like
						decarbonates

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP





# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLERD LOG DATE 4/12/88 LOG TIME 1713  
 LOCATION ID 05<sup>WKR</sup> 07-239 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 239-M1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT.) 5.98  
 SAMPLING PERIOD: START 1440 COMPLETE 1450  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 5.98' DTB 37.89' OVA > 1000 PPM  
Column 31.91 = 533 gals x 3 volumes = 15.99 gal min purge volume.

FINAL PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1737	3.0		7.60	580	14.0	gray slightly silty
1746	3.0		7.65	570	14.5	gray silty
1751	3.0		7.65	580	14.0	brown gray silty
1758	3.0		7.60	550	13.5	silty gray
1809	1.75		7.70	550	14.0	silty gray, well dry
4/13 1043	Well recharged to approximately 28.25 feet.					
1050	3.0		7.75	550	11.5	silty gray
1102	3.0		7.70	540	11.8	silty gray, well dry
4/18 1430	Well recovered to 16.72 feet					

**SAMPLES TYPES: (WSACODE)**

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLERD LOG DATE 2/19/88 LOG TIME 1115  
 LOCATION ID 07-140 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 07-140-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.05'  
 SAMPLING PERIOD: START 1420 4/23/88 COMPLETE 1430  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB = 17.87 vol = 1.97 gal (13) = 5.92 gal OVA = 25 units

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volume)				
1115	0.0	0.0	-	-	-	START PUMPING
1120	3.0		7.35	625	8.5	Very Salty
1125	3.0		7.15	625	7.5	Slightly salty - dry
4/20 848	Recovery to		13.11 feet			
4/22 0400	Recovery to		12.11 feet			
4/21 420	Recovery to		12.10 feet			Time to sample

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/13/88 LOG TIME 1122  
 LOCATION ID 07-241 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 07-241-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 8.32  
 SAMPLING PERIOD: START 1405 4/18/88 COMPLETE 1415 4/18/88  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 8.32 DTB 38.10' OVA > 1000 ppm  
column 29.28 = 4.97 gals x 3 volumes = 14.92 gals purge water

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1139	3.0		7.30	1180	12.0	gray, very silty
1146	3.0		7.35	1150	11.8	gray, very silty
1152	3.0		7.30	1170	12.0	gray, very silty
1207	3.0		7.35	1180	12.5	gray, silty well dry
1213	0.5		7.20	1210	12.5	gray, sandy-silty well dry
4/18 1400	Well recovered to 8.78 feet					

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID 9LFLD LOG DATE 4/22/85 LOG TIME 1020  
 LOCATION ID 07-142 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 07-142-M-01 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.43  
 SAMPLING PERIOD: START 1515 COMPLETE 1525  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 6.43 ~2 gal x 3 = ~6 gal to purge  
DTB 17.92 H2O Tests GA < 1/2  
column 11.49

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	°C	_____	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
1020	0.0	0.0	-	-	-	START PUMPING
1032	3.0		7.05	650	8.5	slightly silty
1037	3.0		7.05	650	8.0	"
1043	3.0		7.25	650	9.5	slightly silty, going dry
1510	well moved to			8.13	feet	

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLF20 LOG DATE 4/22/88 LOG TIME 0935  
 LOCATION ID 07-243 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 07-243-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 7.62  
 SAMPLING PERIOD: START 1530 COMPLETE 1540  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTB 37.92 = 5 gal x 5 = 15 gal to be forged.  
DTW 7.62 HNU = 4 QVA = > 1000

FINAL PARAMETER MEASUREMENTS: Well is bubbling during bailing DETECTION LIMIT  
 POTENTIAL OF HYDROGEN pH S.U. \_\_\_\_\_  
 SPECIFIC CONDUCTANCE SC  $\mu$ mhos/cm \_\_\_\_\_  
 REDOX POTENTIAL Eh mvolts \_\_\_\_\_  
 TEMPERATURE TEMP °C \_\_\_\_\_  
 ALKALINITY (CaCO<sub>3</sub>) ALK mg/l \_\_\_\_\_

TIME	TOTAL VOLUME WITHDRAWN		pH	SC ( $\mu$ mhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
0945	0.0	0.0	-	-	-	START PUMPING
0955	3.0		8.0	550	11.0	Very Silty "Bubbling"
1004	3.0		7.9	550	11.0	" " "
1010	3.0		7.95	550	11.0	" " "
1017	2.0		7.9	525	11.0	Dry
1048	3.0		7.95	550	10.5	Dry
1115	3.0		8.0	550	10.5	Very Silty going dry
4/22 1510	Well removed to			10.85		

**SAMPLES TYPES: (WSACODE)**

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/18/88 LOG TIME 1632  
 LOCATION ID 08-126 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 08-126-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) \_\_\_\_\_  
 SAMPLING PERIOD: START 0900 0915 4/23 COMPLETE 0905 4/23 0925  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 3.84 DTB 22.88 OVA 1000 units  
column 19.04 = 3.18 gals x 3 volumes = 9.54 gals purple water

FINAL PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1647	2.5		6.70	3520	9.5	silty brown
1653	2.5		6.85	3410	9.25	silty brown
1658	2.5		7.05	3430	9.25	silty brown
1607	2.0		7.25	3550	9.25	silty brown, dry
4/21 0900	Well recovered to 16.95 feet.					
4/22 0535	Well recovered to 16.06 ft					
4/23 0911	Well recovered to 15.21 feet					

## SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/18/88 LOG TIME 1755  
 LOCATION ID 08-127 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 127-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.02  
 SAMPLING PERIOD: START 1500 4/19/88 COMPLETE 1509 4/19/88  
 SAMPLING METHOD B LOGGER CODE RFW 1 IDO/1E  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

**PRESERVATION METHOD** \_\_\_\_\_

COMMENTS DTW 6.02 DTB 22.83 CVA 1 ppm  
Column 16.81 = 2.80 gals x 3 volumes = 8.42 gals purge water

**FINAL PARAMETER MEASUREMENTS:**

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	umhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (umhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1802	2.5		7.10	2320	9.5	silty brown
1807	2.5		7.15	2100	9.0	silty brown
1811	2.5		7.15	2050	9.5	silty brown
1818	2.25		7.25	2750	10.0	silty brown, well dry
1134		Water level	5.99'	fully recharged	recharge	
1139	3		6.30	2150	9.5	silty brown
1144	3		6.70	2050	10.0	silty brown
1146	1.5		6.75	2100	10.5	silty brown, well dry

**SAMPLES TYPES: (WSACODE)**

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE April 19, 1988 LOG TIME 1440  
LOCATION ID 08-127 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE EB SAMPLE ID 08-127-M201 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) \_\_\_\_\_  
SAMPLING PERIOD: START 1440 \_\_\_\_\_ COMPLETE 1443  
SAMPLING METHOD B \_\_\_\_\_ LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

### FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

[illegible]

SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

EB - Equia Blank

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/18/88 LOG TIME 1714  
 LOCATION ID 08-128 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 128-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 3.51  
 SAMPLING PERIOD: START 0900 4/23 COMPLETE 0905 4/23  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 3.51' DTA 19.87' OVA < 5 units  
column 16.36' = 2.73 gals x 3 volumes = 8.20 gals purge water

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1729	2.5		7.05	1780	8.0	silty brown
1734	2.5		7.10	1850	8.0	silty brown
1739	2.5		7.10	2050	8.5	silty brown, going dry
1746	2.0		7.15	2590	9.0	silty brown, dry
4/21 0855	Well recovered to 15.33 feet.					
4/22 0841	Well recovered to 14.6 feet					
4/23 0851	Well recovered to 13.7 feet					

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 4/18/88 LOG TIME 1544  
 LOCATION ID 08-129 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 08-129-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 376  
 SAMPLING PERIOD: START 4/18/88 1115 COMPLETE 4/19/88 1121  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 3.76 DTB 19.87 OVA 150 ppb  
Column 16.11 = 2.69 gals x 3 volumes = 8.07 gals purge volume  
LEL 15% 4/19/88 DTW = 7.64 ft 4/19/88  
 FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
1601	3.25		5.16	6900	10.5	Brown, silty
1607	2.5		5.35	6950	10.5	Silty brown
1612	2.5		5.30	6950	9.5	Silty brown
1622	2.25		5.30	6800	10.5	Silty brown, well dry
4/19 1117		Recovery to		7.64 feet		Well sampled

**SAMPLES TYPES: (WSACODE)**

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 6.08 ft  
SAMPLING PERIOD: START 1610 COMPLETE June 20 1613  
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT June 21, 1988  
PRESERVATION METHOD Cool  
COMMENTS Water brown and cloudy - Se - to the bottom of the well -  
went dry -

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.80/6.90/6.80</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>1550/1600/1600</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>14.5/14.0/14.0</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

[illegible]

**SAMPLE METHODS: (WSMCODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 6.11  
SAMPLING PERIOD: START 1209 COMPLETE 1210  
SAMPLING METHOD 3 LOGGER CODE NFW  
LAB CODE \_\_\_\_\_ DATE SENT 6/21/88  
PRESERVATION METHOD 200  
COMMENTS 1st = 2.613 sec

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$		
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

[illegible]

G - GRAB                      SP - SUBMERSIBLE PUMP  
B - BAILER                  AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 6-20-88 LOG TIME 1600  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 231-M021 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.39'  
 SAMPLING PERIOD: START 1555 COMPLETE 1600  
 SAMPLING METHOD B LOGGER CODE RFLW  
 LAB CODE \_\_\_\_\_ DATE SENT 6/21/88  
 PRESERVATION METHOD Chill  
 COMMENTS Small amount of water in well. Time and filter time at base

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1525	3.0		7.45	1800	15	
1535	6.0		7.15	1825	14	
1545	9.0		7.05	2150	15	
1555	12.0		7.10	2300	13	

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN           N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB            SP - SUBMERSIBLE PUMP  
 B - BAILER           AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLERD LOG DATE 6-21-88 LOG TIME \_\_\_\_\_

LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE N SAMPLE ID 233-11021 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT.) 6.11

SAMPLING PERIOD: START 1213 COMPLETE 1215

SAMPLING METHOD R LOGGER CODE 2FV

LAB CODE \_\_\_\_\_ DATE SENT 6-21-88

PRESERVATION METHOD id

COMMENTS 1 vol = 5.38

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
1020	3.0		7.35	3850	14	
1027	3.0		7.35	3800	12	
1034	3.0		7.15	4000	12	
1040	3.0		7.15	4100	13	
1047	1.0		7.2	4350	13	dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	



# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 6-21-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 102-M021 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 INITIAL GROUNDWATER DEPTH (FT.) 7.73  
 SAMPLING PERIOD: START 1255 COMPLETE 1300  
 SAMPLING METHOD R LOGGER CODE AFW  
 LAB CODE \_\_\_\_\_ DATE SENT 6/21/88  
 PRESERVATION METHOD 1 vol 3.34 ml  
 COMMENTS \_\_\_\_\_

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
0930	3.0		7.20	430	12.5	dry
0935	1.5		7.25	430	12.5	dry
0953	1.0		7.30	440	13	dry
1118	1.5		7.38	480	13.5	dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

DETECTION  
LIMIT[illegible]

G - GRAB                      SP - SUBMERSIBLE PUMP  
B - BAILER                  AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP     BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFAD LOG DATE 6-21-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 237-M621 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 INITIAL GROUNDWATER DEPTH (FT) 5.82  
 SAMPLING PERIOD: START 1313 COMPLETE 1315  
 SAMPLING METHOD R LOGGER CODE RTW  
 LAB CODE \_\_\_\_\_ DATE SENT 6/21/88  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1126-5 (90%)

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
<del>1145</del>	3.0		<del>7.85</del>	500	22	
1149	3.0		7.80	490	21	
1154	3.0		7.75	425	19	
1203	3.0		7.55	450	18	dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

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# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 6-20-88 LOG TIME 1700

LOCATION ID 08 LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 128-MC21 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT.) 773

SAMPLING PERIOD: START 1657 COMPLETE 1700

SAMPLING METHOD B LOGGER CODE RFW

LAB CODE \_\_\_\_\_ DATE SENT 6/21/88

PRESERVATION METHOD Cold

COMMENTS \_\_\_\_\_

## FINAL PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.			
SPECIFIC CONDUCTANCE	SC	µmhos/cm			
REDOX POTENTIAL	Eh	mvolts			
TEMPERATURE	TEMP	°C			
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l			

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
<u>1648</u>	<u>3.0</u>	<u>1.5</u>	<u>6.85</u>	<u>1625</u>	<u>14</u>	
<u>1653</u>	<u>3.0</u>	<u>3.0</u>	<u>6.85</u>	<u>1800</u>	<u>11</u>	

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE            LB - LAB BLANK  
K - KNOWN           N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                              SP - SUBMERSIBLE PUMP  
B - BAILER                             AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP              BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP



Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1225  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 501-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1420 COMPLETE 1435  
 SAMPLING METHOD R LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.25/7.25</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>1300/1300</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>10°/10°</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1440  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 502-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1445 COMPLETE 1450  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.65/7.70/7.70</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>820/825/820</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>10°/9°/9°</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



Round #1

Pump House  
SBLF

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1745  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 504-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1755 4/20/88 COMPLETE 1809 4/20/88  
 SAMPLING METHOD G LOGGER CODE RFW/JDU/CWK  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW = 19.60 ft DTB = 25.16 ft  
Water clear and colorless

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN  
 SPECIFIC CONDUCTANCE  
 REDOX POTENTIAL  
 TEMPERATURE  
 ALKALINITY (CaCO<sub>3</sub>)

pH  
 SC  
 Eh  
 TEMP  
 ALK

S.U.

µmhos/cm

mvolts

°C

mg/l

8.1/8.0/8.0  
370/320/340  
8.0/6.50/6.50

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN  
 SPECIFIC CONDUCTANCE  
 REDOX POTENTIAL  
 TEMPERATURE  
 ALKALINITY (CaCO<sub>3</sub>)

pH  
 SC  
 Eh  
 TEMP  
 ALK

S.U.

µmhos/cm

mvolts

°C

mg/l

DETECTION  
LIMIT

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE  
 R - REPLICATE  
 S - SPIKE  
 K - KNOWN  
 FB - FIELD BLANK  
 TB - TRIP BLANK  
 LB - LAB BLANK  
 N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1150  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 508-W001 SAMPLE DEPTH (FT.) 857  
 SAMPLING PERIOD: START 1200 COMPLETE 1215  
 SAMPLING METHOD C LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.85/7.85/7.85</u>
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>380/365/360</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>8.0/6.5/6.0</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1345  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE V SAMPLE ID 503-W001 SAMPLE DEPTH (FT.) surface  
 SAMPLING PERIOD: START 1200 COMPLETE 1215  
 SAMPLING METHOD C LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.9/7.9/7.9</u>
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>450/450/450</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>12.0/11.0/11.5</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE  
 R - REPLICATE  
 S - SPIKE  
 K - KNOWN

FB - FIELD BLANK  
 TB - TRIP BLANK  
 LB - LAB BLANK  
 N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

Round # 1

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/2/88 LOG TIME 1120  
 LOCATION ID C1 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE 1 SAMPLE ID 505-1001 SAMPLE DEPTH (FT.) 3.27  
 SAMPLING PERIOD: START 1130 COMPLETE 1145  
 SAMPLING METHOD G LOGGER CODE EF10  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.95/7.8/7.75</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>340/335/335</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>7.5/6.25/6.0</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/2/88 LOG TIME 1000  
 LOCATION ID D12 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE 1 SAMPLE ID 506-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1010 COMPLETE 1025  
 SAMPLING METHOD G LOGGER CODE EF10  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.7/7.65/7.65</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>60/60/60</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>7.5/6.0/5.5</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE  
 R - REPLICATE  
 S - SPIKE  
 K - KNOWN  
 FB - FIELD BLANK  
 TB - TRIP BLANK  
 LB - LAB BLANK  
 N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP  
 SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1500  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 509-W001 SAMPLE DEPTH (FT.) 1.5  
 SAMPLING PERIOD: START 1520 COMPLETE 1530  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD DTW - 1755'  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.55/7.80/7.8</u>	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>415/410/395</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>80/70/70</u>	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1615  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 512-W001 SAMPLE DEPTH (FT.) 7.80  
 SAMPLING PERIOD: START 1630 COMPLETE 1645  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD DTW = 7.8'  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.9/7.85/7.85</u>	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>465/600/600</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>81/80/80</u>	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRT LOG DATE 4/20/88 LOG TIME 1800  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 513-W001 SAMPLE DEPTH (FT.) 6.00  
 SAMPLING PERIOD: START 1800 COMPLETE 1825  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.65/7.6/7.65</u>
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>625/600/600</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	<u>18.5/18.0</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

INSTALLATION ID SLFRT LOG DATE 4/20 LOG TIME 1830  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 507-W001 SAMPLE DEPTH (FT.) surface  
 SAMPLING PERIOD: START 1830 COMPLETE 1840  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 24, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS only one set field parameter taken due to  
lack of water

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.80</u>
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>790</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	<u>10</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1650  
LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 511-W001 SAMPLE DEPTH (FT.) 6.55  
SAMPLING PERIOD: START 1650 COMPLETE 1715  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.8/7.85/7.8</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>390/390/315</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>8.0/7.5/7.0</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID SLFRD LOG DATE 4/20/88 LOG TIME 1720  
LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 512-W001 SAMPLE DEPTH (FT.) Surface  
SAMPLING PERIOD: START 1725 COMPLETE 1745  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS only one set field parameters taken due to lack of water

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.45</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>630</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>7.5</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE          LB - LAB BLANK  
K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
B - BAILER                  AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1020  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 514-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1030 4/20/88 COMPLETE 1044 4/20/88  
 SAMPLING METHOD G LOGGER CODE RFW-1TD01CWR  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW = 3.61 top of water surface

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.20 / 7.20 / 7.20</u>	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>950 / 940 / 980</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>6.5 / 6.5 / 6.5</u>	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$		
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB - bucket  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP



Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFED LOG DATE April 20, 1988 LOG TIME 0950  
 LOCATION ID 05-515-W001 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 515-W001 SAMPLE DEPTH (FT.) 3.42 ft

SAMPLING PERIOD: START 1000 ~~1200~~ COMPLETE 1016 4/20/88  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW 3.42 ft from marks on top of storm inlet  
Water stagnant, no flow. Clear and colorless at start. Slightly brown  
as mud was stirred up during sampling. Grass floating on water

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN

pH

S.U.

2.55 / 2.55 / 2.50

SPECIFIC CONDUCTANCE

SC

 $\mu\text{mhos/cm}$ 1310 / 1280 / 1280

REDOX POTENTIAL

Eh

mvolts

7.0 / 7.0 / 6.0

TEMPERATURE

TEMP

°C

ALKALINITY ( $\text{CaCO}_3$ )

ALK

mg/l

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS \_\_\_\_\_

DETECTION  
LIMIT

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN

pH

S.U.

SPECIFIC CONDUCTANCE

SC

 $\mu\text{mhos/cm}$ 

REDOX POTENTIAL

Eh

mvolts

TEMPERATURE

TEMP

°C

ALKALINITY ( $\text{CaCO}_3$ )

ALK

mg/l

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB = bucket  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP



Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1055  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N, S, SD SAMPLE ID 5 16-0001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1105 COMPLETE 1140 4/20/88  
 SAMPLING METHOD G LOGGER CODE RFW JTD KWK  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW = 10.80 ft DTB = 12.79 ft

Matrix Spike + MSD collected also

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.30 / 7.60 / 7.35</u>	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>340 / 355 / 360</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>9.5 / 9.5 / 9.0</u>	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$		
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1151  
LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 517-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START 1155 4/20/88 COMPLETE 1210 4/20/88  
SAMPLING METHOD G LOGGER CODE RFW/CWK/TDO  
LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS DTU 9.43 ft DTB-9.74 ft Water clear and colorless.

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.40 / 7.60 / 7.30</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>330 / 325 / 320</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>9.5 / 9.5 / 9.8</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE      LB - LAB BLANK  
K - KNOWN      N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

Round #1

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1330  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 518-0001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1340 4/20/88 COMPLETE 1349 4/20/88  
 SAMPLING METHOD G LOGGER CODE RFW/JDD/CWK  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW = 11.67 ft from top of concrete DTB 14.18 ft  
Oil film on water surface

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.7/7.65/7.65</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>315/310/315</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>9.0/8.5/9.0</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1400 1606  
LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 519-0001 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1620 4/20/88 COMPLETE 1628 4/20/88  
SAMPLING METHOD G LOGGER CODE RFW/SDO/CWK  
LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW = 6.83' DTB = 6.00' CWK 7.00'  
Note oily film on water surface. Oily water appears to be coming from south pipe

## PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.95/7.95/7.95</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>325/315/315</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>8.0/7.5/7.5</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
R - REPLICATE TB - TRIP BLANK  
S - SPIKE LB - LAB BLANK  
K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
B - BAILER AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1635  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 520-0001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1645 4/20/88 COMPLETE 1652 4/20/88  
 SAMPLING METHOD G LOGGER CODE RFW/JDU/CWK  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW = 5.43 ft DTB = 5.47 ft  
Flowing water, in a very small/ting stream

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.05/8.20/8.20</u>	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>185/180/175</u>	
REDOX POTENTIAL	Eh	mvolts	<u>7.5/7.0/7.0</u>	
TEMPERATURE	TEMP	$^{\circ}\text{C}$		
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAKER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADOER PUMP

Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1453  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 531-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1459 4/20/88 COMPLETE 1509 4  
 SAMPLING METHOD G LOGGER CODE RFW/JDC/CWIC  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988

PRESERVATION METHOD \_\_\_\_\_

COMMENTS DTW = 5.47 ft DTB = 5.56 ft  
water has an amber to peach color. Inflow of water just above  
sample point

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>9.35/9.45/9.50</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>405/415/415</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>14.5/14.5/14.5</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

\* See Green book #2 p. 81 for instrument measures not water sampled but  
 of water from discharge pipe.

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

Round # 1

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1515  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 522-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1520 4/20/88 COMPLETE 1531 4/20/88  
 SAMPLING METHOD G LOGGER CODE RFW/JDO/CWK  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW = 7.37 ft DTB 7.74 ft

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.2/7.85/8.10</u>
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>420/435/350</u>
REDOX POTENTIAL	Eh	mvolts	<u>9.0/7.5/11.0</u>
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE      LB - LAB BLANK  
 K - KNOWN      N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB - Bucket      SP - SUBMERSIBLE PUMP  
 B - BAILER      AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1349  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 523-4001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START 1405 4/20/88 COMPLETE 1411 4/20/88  
SAMPLING METHOD G LOGGER CODE RFW/TDO/CWK  
LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS DTW 10.60 ft DTB 10.81 ft  
Water clear and colorless

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY (CaCO<sub>3</sub>)

pH  
SC  
Eh  
TEMP  
ALK

S.U.  
 $\mu$ mhos/cm  
mvolts  
°C  
mg/l

8.0 / 8.0 / 8.0  
282 / 255 / 295  
2.5 / 2.5 / 2.5

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY (CaCO<sub>3</sub>)

pH  
SC  
Eh  
TEMP  
ALK

S.U.  
 $\mu$ mhos/cm  
mvolts  
°C  
mg/l

DETECTION  
LIMIT

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE  
R - REPLICATE  
S - SPIKE  
K - KNOWN  
FB - FIELD BLANK  
TB - TRIP BLANK  
LB - LAB BLANK  
N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



Round #1

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE April 20, 1988 LOG TIME 1418  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 524-1000 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1425 ~~1435~~ COMPLETE 1435  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT April 21, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS DTW 4.12 ft DTB = 6.13 ft  
Note: Fuel smell in storm and oily film on water surface

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN  
 SPECIFIC CONDUCTANCE  
 REDOX POTENTIAL  
 TEMPERATURE  
 ALKALINITY (CaCO<sub>3</sub>)

PH  
 SC  
 Eh  
 TEMP  
 ALK

S.U.

µmhos/cm

mvolts

°C

mg/l

7.7/7.5/7.5

85/85/85

9.5/8.5/8.5

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN  
 SPECIFIC CONDUCTANCE  
 REDOX POTENTIAL  
 TEMPERATURE  
 ALKALINITY (CaCO<sub>3</sub>)

PH  
 SC  
 Eh  
 TEMP  
 ALK

S.U.

µmhos/cm

mvolts

°C

mg/l

DETECTION  
LIMIT

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE  
 R - REPLICATE  
 S - SPIKE  
 K - KNOWN  
 FB - FIELD BLANK  
 TB - TRIP BLANK  
 LB - LAB BLANK  
 N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

1 Round #2

SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1500  
LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 501-4002 SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START 1510 COMPLETE 1520  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.3/7.3/7.2</u>
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>680/700/700</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>21.0/21.5/21.0</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME \_\_\_\_\_  
LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 503-4002-4102 SAMPLE DEPTH (FT.) 3  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.3/8.3/8.5</u>
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>340/335/320</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>22/21.5/21.5</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE          LB - LAB BLANK  
K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1510  
LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 504-W002-W502 SAMPLE DEPTH (FT.) 19.92  
W002 TOTAL 25.25  
SAMPLING PERIOD: START 1510 COMPLETE 1547  
SAMPLING METHOD PNEUMAT LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN	pH	S.U.	7.3/7.3/7.3	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	315/340/340	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$	10°/9.5/9°	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1645  
LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 502-4002 SAMPLE DEPTH (FT.) —  
SAMPLING PERIOD: START 1700 COMPLETE 1710  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN	pH	S.U.	7.8 / 7.9 / 7.8	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	750 / 750 / 750	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	180 / 175 / 175	

**SAMPLE TYPES: (WSACODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1945  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 505-W002 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1955 3/10/88 COMPLETE 1959 3/10/88  
 SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK  
 LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.91/7.85/7.85</u>
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>320/315/310</u>
REDOX POTENTIAL	Eh	mvolts	<u>91/75/7.0</u>
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>7.0</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

Dry, No sample to collect

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2029  
LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 506-W002 SAMPLE DEPTH (FT.) D  
SAMPLING PERIOD: START 1000 3/10/88 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW/JSD/GSK  
LAB CODE \_\_\_\_\_ DATE SENT May  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS No water. Pond is dry

### PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

### PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

#### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE      LB - LAB BLANK  
K - KNOWN      N - NORMAL

#### SAMPLE METHODS: (WSMCODE)

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2030  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 507-4002 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 2035 3/1/88 COMPLETE 2040 3/1/88  
 SAMPLING METHOD G LOGGER CODE RFW/LDO/GSK  
 LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
 PRESERVATION METHOD \_\_\_\_\_

COMMENTS Brown colored water. Dirty film  
Only 1-2 gallons of water in the small hand dug hole  
next to staff gage

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.95/6.95/6.95</u>	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>1050/1500/1500</u>	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>15.0/15/15.0</u>	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADOER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2010  
LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 508-W002 SAMPLE DEPTH (FT.) DTW = 8 ft 2 in  
DTG = 8 ft 6 in  
SAMPLING PERIOD: START 2025 3/10/88 COMPLETE 2028 3/10/88  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW/JDO/GSK  
LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
PRESERVATION METHOD G  
COMMENTS \_\_\_\_\_

DETECTION  
LIMIT

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME \_\_\_\_\_  
LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

DETECTION  
LIMIT

SP . SUBMERSIBLE PUMP  
AL . AIR-LIFT SAMPLER  
BP . BLADOER PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2045  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 509-4002 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 2055 3/10/88 COMPLETE 2100  
 SAMPLING METHOD G LOGGER CODE PFW/JDO/GSK  
 LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Water clear and colorless

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.75/2.80</u>
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>345/340</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	<u>10.0/10.0</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1820  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 510 W002 SAMPLE DEPTH (FT.) 5.0'

SAMPLING PERIOD: START 1825 COMPLETE 1835  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U. <u>6.9/6.9</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$ <u>290/286</u>	_____
REDOX POTENTIAL	Eh	mvolts _____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$ <u>12/10</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l _____	_____

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME 1840  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 520 W002 SAMPLE DEPTH (FT.) 5.49

SAMPLING PERIOD: START 1840 COMPLETE 1850  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U. <u>6.83/6.70</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$ <u>170/170/100</u>	_____
REDOX POTENTIAL	Eh	mvolts _____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$ <u>11.0/11.1/11.5</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l _____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME \_\_\_\_\_  
LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 512 W002 SAMPLE DEPTH (FT.) 7.81  
6u W102  
SAMPLING PERIOD: START 1730 COMPLETE 1750  
SAMPLING METHOD G LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN	pH	S.U.	7.0 / 7.6 / 7.8	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	280 / 280 / 270	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12° / 12° / 11.5	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID SLFRD LOG DATE 5/10/88 LOG TIME \_\_\_\_\_  
LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 511 W002 SAMPLE DEPTH (FT.) 6.67  
W002C TOTAL 6.79  
SAMPLING PERIOD: START 1800 COMPLETE 1812  
SAMPLING METHOD G LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN	pH	S.U.	6.9 / 6.8 / 6.8	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	240 / 240 / 235	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	13 / 11° / 11°	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

**SAMPLE TYPES: (WSACODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

1 Round #2

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 5-10-88 LOG TIME 1817LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_SAMPLE TYPE N SAMPLE ID 513-W002 SAMPLE DEPTH (FT.) \_\_\_\_\_SAMPLING PERIOD: START 1820 COMPLETE 1825SAMPLING METHOD G LOGGER CODE RFWLAB CODE \_\_\_\_\_ DATE SENT May 11, 1988

PRESERVATION METHOD \_\_\_\_\_

COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN

pH

S.U.

7.20/7.25/7.20DETECTION  
LIMIT

SPECIFIC CONDUCTANCE

SC

 $\mu\text{mhos/cm}$ 250/270/270

REDOX POTENTIAL

Eh

mvolts

TEMPERATURE

TEMP

°C

12.0/11.5/11.5ALKALINITY ( $\text{CaCO}_3$ )

ALK

mg/l

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_

LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_

SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_

LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN

pH

S.U.

SPECIFIC CONDUCTANCE

SC

 $\mu\text{mhos/cm}$ 

REDOX POTENTIAL

Eh

mvolts

TEMPERATURE

TEMP

°C

ALKALINITY ( $\text{CaCO}_3$ )

ALK

mg/l

DETECTION  
LIMIT

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE    FB - FIELD BLANK  
R - REPLICATE    TB - TRIP BLANK  
S - SPIKE    LB - LAB BLANK  
K - KNOWN    N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1717  
LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 514-W002 SAMPLE DEPTH (FT.) DTW 5 ft 8 inch  
DTB 7 ft 9 inch  
SAMPLING PERIOD: START 1725 3/1/88 COMPLETE 1740 5/10/88  
SAMPLING METHOD G LOGGER CODE RFW 1500  
LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS Note oily film on water surface

mg/l

mg/l

**BP - BLADDER PUMP**

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID 3LFD LOG DATE May 10, 1988 LOG TIME 1620  
LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 515-1002 SAMPLE DEPTH (FT) DTW 6 1/2 ft  
DTB 6 ft 6 in  
SAMPLING PERIOD: START 1630 3/10/88 COMPLETE 1645 3/10/88  
SAMPLING METHOD M LOGGER CODE RFW/JDO/RG  
LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS Water is muddy. Throws cuttings and paper trash in  
water.

**PARAMETER MEASUREMENTS:**

			UNIT
POTENTIAL OF HYDROGEN	PH	S.U.	<u>7.45/7.45/7.15</u>
SPECIFIC CONDUCTANCE	SC	μmhos/cm	<u>2700/2500/2800</u>
REDOX POTENTIAL	EH	mV	
TEMPERATURE	TEMP	°C	<u>16.0°C/14.0°C/14.0°C</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

				UNIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	$\text{mg/l}$	_____	_____

**SAMPLE TYPES: (WSACODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1820 → 1900  
LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N, P, S, SD SAMPLE ID 516-W002 SAMPLE DEPTH (FT.) DTW = 12 ft 2 in  
516-W502 DTB = 15 ft 1 in  
516-W502  
SAMPLING PERIOD: START 1835 3/10/88 COMPLETE 1900 5/10/88  
SAMPLING METHOD G LOGGER CODE RFW/ID0/BG  
LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS Only film on water surface

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	$\mu\text{mhos/cm}$
Eh	mvolts
TEMP	$^{\circ}\text{C}$
ALK	mg/l

7.55 / 7.65 / 7.55  
650 / 600 / 650  
13.0 / 12.0 / 11.5

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	µmhos/cm
Eh	mvolts
TEMP	°C
ALK	mg/l

DETECTION  
LIMIT

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

05-517-01

mg/l

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2135  
LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 518-W002 SAMPLE DEPTH (FT.) DTW = 11 ft 5 in  
DTB = 14 ft 2 in  
SAMPLING PERIOD: START 2145 3/0\* COMPLETE 2151  
SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK  
LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

			7.70/7.65/7.70	LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	7.70/7.65/7.70	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	450/460/460	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.0/12.5/22.5	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

				UNIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}\text{C}$		
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

**SAMPLE TYPES: (WSACODE)**

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE      LB - LAB BLANK  
K - KNOWN      N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 2109  
LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 519-W002 SAMPLE DEPTH (FT.) DTW=6 ft  
DTB=6 ft 11  
SAMPLING PERIOD: START 2110 2115 COMPLETE 2122  
SAMPLING METHOD G LOGGER CODE RFW/JDO/GSK  
LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
PRESERVATION METHOD Potassium persulfate  
COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.8 / 7.85 / 7.85</u>
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>500 / 550 / 500</u>
REDOX POTENTIAL	Eh	mvolts	<u>                    </u>
TEMPERATURE	TEMP	°C	<u>10.5 / 10.5 / 10.5</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	<u>                    </u>

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

G - GRAB  
B - BAULER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1555  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE G SAMPLE ID 521-W002 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 160500 5/10/88 COMPLETE 1614 DTW 7ft 7 inches  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW/JDO/BG DTS 7ft 8 inch  
 LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Strong fuel - solvent smell down inside sewer.  
Film on water surface

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE May 10, 1988 LOG TIME 1530  
 LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE 1 SAMPLE ID 522-W002 SAMPLE DEPTH (FT.) 9'6" DT 9810 mds DT  
 SAMPLING PERIOD: START 1540 3/10/88 COMPLETE 1550 3/10/88  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW/JDO/BG  
 LAB CODE \_\_\_\_\_ DATE SENT May 11, 1988  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Grass cuttings floating on water's surface

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.80/7.80/7.80</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>750/650/650</u>	_____
REDOX POTENTIAL	Eh	mvolts	<u>100</u>	_____
TEMPERATURE	TEMP	°C	<u>13.0/13.0/12.0</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

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G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

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INITIAL GROUNDWATER DEPTH (FT) 10.0  
SAMPLING PERIOD: START 1100 COMPLETE \_\_\_\_\_  
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS 1 gal = 2.15 gal

**DETECTION  
LIMIT**

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.33 / 7.30</u>	<u>_____</u>
SPECIFIC CONDUCTANCE	SC	μmhos/cm	<u>1930 / 1932</u>	<u>_____</u>
REDOX POTENTIAL	Eh	mvolts	<u>_____</u>	<u>_____</u>
TEMPERATURE	TEMP	°C	<u>22.5 / 17.5</u>	<u>_____</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	<u>_____</u>	<u>_____</u>

[illegible]

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



**PAGE 1 OF 2**

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 124-M021 SAMPLE DEPTH (FT.) \_\_\_\_\_

COMMENTS 1 Volume - 3.28

POTENTIAL OF HYDROGEN	pH	S.U.	6.74   6.77	_____
SPECIFIC CONDUCTANCE	SC	μmhos/cm	3810   3,860	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	12.0°   11.7°	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

SAMPLES TYPES: (WSACODE)

K - KNOWN                      N - NORMAL

SL - SUCTION LIFT PUMP

BP - BLADDER PUMP



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# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8-7-88 LOG TIME 1015  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 257-M021 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 7.85  
 SAMPLING PERIOD: START 1020 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS val = 5.0 gal

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U. <u>7.42/7.48</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$ <u>3290/5300</u>	_____
REDOX POTENTIAL	Eh	mvolts _____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$ <u>13.3/13.3</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l _____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu\text{mhos/cm}$ )	TEMP. ( $^{\circ}\text{C}$ )	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
<u>8/6</u>	<u>7.5</u>					<u>dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

**PAGE 1 OF 2**

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 158-M021 SAMPLE DEPTH (FT.) \_\_\_\_\_

COMMENTS 1 vol - 193

POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.3 / 6.3</u>
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>400 / 4000</u>
REDOX POTENTIAL	Eh	mvolts	<u>                    </u>
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>18.5 / 18.6</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	<u>                    </u>

G - GRAB  
B - BAULER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADOER PUMP

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G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADOER PUMP

PAGE 1 OF 2

INITIAL GROUNDWATER DEPTH (FT) 10.70  
SAMPLING PERIOD: START 1040 COMPLETE \_\_\_\_\_  
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS 1 val = 1.70

DETECTION  
LIMIT[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLERD LOG DATE 8-7-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 261-MOAI SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 7.40  
 SAMPLING PERIOD: START 1045 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1 vol: 4.75

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.97 / 6.90</u>	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	μmhos/cm	<u>1287 / 1290</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>22 / 12.9</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (μmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
<u>8/6</u>	0.0	0.0	-	-	-	START PUMPING
<u>1515</u>	10.0					<u>dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE      LB - LAB BLANK  
 K - KNOWN      N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
 B - BAILER      AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8/7/88 LOG TIME \_\_\_\_\_  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 162 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 INITIAL GROUNDWATER DEPTH (FT.) 21.5  
 SAMPLING PERIOD: START 11:13 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS val = 1.13

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.01</u> <u>7.06</u>	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>1900</u> <u>1920</u>	
REDOX POTENTIAL	Eh	mvolts	_____	
TEMPERATURE	TEMP	°C	<u>13.3°</u> <u>12.9°</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	
			_____	

TIME	TOTAL VOLUME WITHDRAWN		pH	SC ( $\mu$ mhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volume)				
	0.0	0.0	-	-	-	START PUMPING
<u>8/6</u>	<u>4.0</u>					<u>dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8/7 LOG TIME \_\_\_\_\_  
 LOCATION ID 21 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 263-mo21 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 840  
 SAMPLING PERIOD: START 11:00 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE 1 DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 4.94 = ival

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN  
 SPECIFIC CONDUCTANCE  
 REDOX POTENTIAL  
 TEMPERATURE  
 ALKALINITY (CaCO<sub>3</sub>)

pH  
 SC  
 Eh  
 TEMP  
 ALK

S.U.  
 μmhos/cm  
 mvolts  
 °C  
 mg/l

7.02 | 7.10  
2,140 | 2,180  
11.29 | 11.7°

DETECTION  
LIMIT

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (μmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	Bore Volume(s)				
	0.0	0.0	-	-	-	START PUMPING
<u>8/6</u>	<u>9.0</u>					<u>dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

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INITIAL GROUNDWATER DEPTH (FT) 13.62  
SAMPLING PERIOD: START 0950 COMPLETE 0955  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS 1 val. = 21 gal

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	6.95 / 6.93	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	3800 / 3810	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	12.5 / 12.6	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 8/3/88 LOG TIME 0930  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 165-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 14.88  
 SAMPLING PERIOD: START 0930 COMPLETE 0955  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS val .84 gal

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.74 / 6.76</u>	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>2650 / 2780</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>11.4 / 11.9</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu$ mhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volume)				
	0.0	0.0	-	-	-	START PUMPING
8/2	5.00					dry

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADOER PUMP
SL - SUCTION LIFT PUMP	

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 8/3/88 LOG TIME 0940  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 166-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 INITIAL GROUNDWATER DEPTH (FT) 13.46  
 SAMPLING PERIOD: START 0935 0945 COMPLETE 0955 0950  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1 vol 1.07 gal

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U. <u>6.96/11.91</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$ <u>2540/2570</u>	_____
REDOX POTENTIAL	Eh	mvolts _____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$ <u>12.2/11.5</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l _____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu\text{mhos/cm}$ )	TEMP. ( $^{\circ}\text{C}$ )	COMMENTS
	(GALS)	Bore Volume(s)				
	0.0	0.0	-	-	-	START PUMPING
8/3	5.0					<i>dry</i>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

МН, М201, М50, М60

COMMENTS 1 val = 3.42 gal

ALKALINITY ( $\text{CaCO}_3$ )      ALK    mg/l      \_\_\_\_\_

SL - SUCTION LIFT PUMP

**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 3.47  
SAMPLING PERIOD: START 14:25 hrs. COMPLETE \_\_\_\_\_  
SAMPLING METHOD B \_\_\_\_\_ LOGGER CODE REW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS 1000 = 3.06

DETECTION  
LIMIT

pH	S.U.
SC	$\mu\text{mhos/cm}$
Eh	mvolts
TEMP	$^{\circ}\text{C}$
ALK	mg/l

7.04 | 7.01  
~~870~~ | ~~890~~  
12.0° | 12.1°

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	





**PAGE 1 OF 2**

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 5.54  
SAMPLING PERIOD: START 0955 COMPLETE \_\_\_\_\_  
SAMPLING METHOD B LOGGER CODE RFQ  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS 1 vol = 3.67

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.46 / 7.43</u>	
SPECIFIC CONDUCTANCE	SC	μmhos/cm	<u>1171 / 1152</u>	
REDOX POTENTIAL	Eh	mvolts		-
TEMPERATURE	TEMP	°C	<u>12.7 / 12.9</u>	-
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		-

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

**PAGE 1 OF 2**

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 10:00  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 115-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.29  
 SAMPLING PERIOD: START 10:22 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1 val = 3.7 gal

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.72 / 7.70</u>
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>827 / 850</u>
REDOX POTENTIAL	Eh	mvolts	-
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>15.0° / 15.1°</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	-

TIME	TOTAL VOLUME WITHDRAWN		pH	SC ( $\mu\text{mhos/cm}$ )	TEMP. ( $^{\circ}\text{C}$ )	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
<u>10:13</u>	<u>5.0</u>					<u>Dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 14:00  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE 1 SAMPLE ID 148-1001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.87  
 SAMPLING PERIOD: START 14:15 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS val = 1.83

## FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.40/6.55</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>860/900</u>	_____
REDOX POTENTIAL	Eh	mvolts	<u>13.5°/15.6°</u>	_____
TEMPERATURE	TEMP	°C	<u>13.5°/15.6°</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
<u>14:11</u>	<u>5.50</u>					

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 8.38  
SAMPLING PERIOD: START 1345 COMPLETE \_\_\_\_\_  
SAMPLING METHOD B LOGGER CODE RFu  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS 1 val = 1.6 gal

DETECTION  
LIMIT

pH	S.U.
SC	µmhos/cm
Eh	mvolts
TEMP	°C
ALK	mg/l

8 7.32 / 7.30  
1338 / 1323  
15.1 / 15.2

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

# GROUND WATER QUALITY SAMPLING RECORD

PAGE 1 OF 2

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 1345  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 251-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.19  
 SAMPLING PERIOD: START 1350 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS val = 4.30

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U. <u>8.03/8.03</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$ <u>596-595</u>	_____
REDOX POTENTIAL	Eh	mvolts _____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$ <u>12.9/13.7</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l _____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu\text{mhos/cm}$ )	TEMP. ( $^{\circ}\text{C}$ )	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
<u>1350</u>	<u>11.0</u>					<u>dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



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INITIAL GROUNDWATER DEPTH (FT) 6.52  
SAMPLING PERIOD: START 1245 COMPLETE             
SAMPLING METHOD B LOGGER CODE RFW  
LAB CODE            DATE SENT             
PRESERVATION METHOD             
COMMENTS 1720 = 2.18

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.25/7.20</u>	
SPECIFIC CONDUCTANCE	SC	μmhos/cm	<u>1063/1033</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>15.3/14.3</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	



# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 253-11001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.65  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1/2: 5.21

## FINAL PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.35 / 7.37</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>1404 / 1388</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>15.1 / 15.1</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC (µmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
<u>1140</u>	<u>7.5</u>					<u>dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 1100  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 154-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 5.50  
 SAMPLING PERIOD: START 1100 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1 vol = 1.72 gal

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U. <u>7.07 / 7.02</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$ <u>1230 / 1226</u>	_____
REDOX POTENTIAL	Eh	mvolts _____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$ <u>16.0 / 16.0</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l _____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu\text{mhos/cm}$ )	TEMP. ( $^{\circ}\text{C}$ )	COMMENTS
	(GALS)	Bore Volume(s)				
	0.0	0.0	-	-	-	START PUMPING
1055	5.0					Reg

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME 1100  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 255-M001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 INITIAL GROUNDWATER DEPTH (FT) 4.45  
 SAMPLING PERIOD: START 1110 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1 vol = 5.23 gal

## FINAL PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U. <u>7.51/7.49</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$ <u>1240/1231</u>	_____
REDOX POTENTIAL	Eh	mvolts _____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$ <u>18.0/14.6</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l _____	_____

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu\text{mhos/cm}$ )	TEMP. ( $^{\circ}\text{C}$ )	COMMENTS
	(GALS)	(Bore Volumes)				
	0.0	0.0	-	-	-	START PUMPING
<u>1030</u>	<u>12.0</u>					<u>dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



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INITIAL GROUNDWATER DEPTH (FT) 9.13  
SAMPLING PERIOD: START 0815 COMPLETE 0820  
SAMPLING METHOD B LOGGER CODE RTU  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS 1 vol 1.48

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	μmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	



# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8/4/88 LOG TIME 16:55  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 132-H021 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT.) 7.27  
 SAMPLING PERIOD: START 17:05hrs COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 1 volume - 1.93ga.

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.89</u>   <u>6.84</u>	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>2,500</u>   <u>2,490</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	$^{\circ}$ C	<u>12.9</u>   <u>13.3</u>	
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN		PH	SC ( $\mu$ mhos/cm)	TEMP. ( $^{\circ}$ C)	COMMENTS
	(GALS)	Bore Volumes				
	0.0	0.0	-	-	-	START PUMPING
<u>16:55</u>						
<u>17:05</u>						

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



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# GROUND WATER QUALITY SAMPLING RECORD

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INSTALLATION ID SLFRD LOG DATE 8-5-88 LOG TIME 10:00  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 235-M021 SAMPLE DEPTH (FT.) \_\_\_\_\_

INITIAL GROUNDWATER DEPTH (FT) 6.33  
 SAMPLING PERIOD: START 10:13:10 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD B LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS 10:13:10 4.3 gal

## FINAL PARAMETER MEASUREMENTS:

POTENTIAL OF HYDROGEN	pH	S.U.	<u>6.54/6.75</u>	DETECTION LIMIT
SPECIFIC CONDUCTANCE	SC	μmhos/cm	<u>1,800/1,850</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>13.4/16.6°</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

TIME	TOTAL VOLUME WITHDRAWN		pH	SC (μmhos/cm)	TEMP. (°C)	COMMENTS
	(GALS)	(Bore Volume)				
	0.0	0.0	-	-	-	START PUMPING
<u>10:25</u>	<u>11.0</u>					<u>Dry</u>

### SAMPLES TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP







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### FINAL PARAMETER MEASUREMENTS:

7.63	7.65
7.81	7.77
13.5°	15.6°

---

SAMPLES TYPES: (WSACODE)

**SAMPLE METHODS: (WSMCODE)**

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DETECTION  
LIMIT[illegible]

SAMPLES TYPES: (WSACODE)

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

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COMMENTS 1 rd - 3.23 gal

## mg/l

SL - SUCTION LIFT PUMP



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COMMENTS 1 mol = 5.61

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.8 at 18.4°C</u>	
SPECIFIC CONDUCTANCE	SC	μmhos/cm	<u>631</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

[illegible]

**SAMPLE METHODS: (WSMCODE)**

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE      LB - LAB BLANK  
K - KNOWN      N - NORMAL

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAULER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	





PAGE 1 OF 2

LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 140-M21 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 14:40 COMPLETE                     

SAMPLING METHOD B \_\_\_\_\_ LOGGER CODE \_\_\_\_\_

LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

**PRESERVATION METHOD** \_\_\_\_\_

COMMENTS 1-volume-1.68

DETECTION  
LIMIT

**pH**                      **S.U.**

SC  $\mu\text{mhos/cm}$ 

Eh        mvolts

TEMP °C

ALK mg/l

[illegible]

**SAMPLE METHODS: (WSMCODE)**

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	



PAGE 1 OF 2

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G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	



**PAGE 1 OF 2**

COMMENTS val = 1.55

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G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

**PAGE 1 OF 2**

COMMENTS 1 vol' = 5.35

## mg/l

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

**PAGE 1 OF 2**

INITIAL GROUNDWATER DEPTH (FT) 9.06  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD B \_\_\_\_\_ LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS val = 2.30

**DETECTION  
LIMIT**

PH	S.U.	7.0 / 6.96
SC	µmhos/cm	4250 / 4110
EH	mvolts	
TEMP	°C	14.5 / 14.6
ALK	mg/l	

[illegible]

G - GRAB                      SP - SUBMERSIBLE PUMP  
B - BAILER                  AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP     BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP

PAGE 1 OF 2





# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 502-W021 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1340 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.71</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>974</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>24.5</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 504 <sup>W121 W521</sup> <sub>W221 W621</sub> SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1315 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.95</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>563</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>18.6</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1420  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID EOS-W022 SAMPLE DEPTH (FT.) 8.40

SAMPLING PERIOD: START 1420 COMPLETE 1615  
 SAMPLING METHOD 6 LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.53</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>394</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>19.7</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE            LB - LAB BLANK  
 K - KNOWN            N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 507-W021 SAMPLE DEPTH (FT.) \_\_\_\_\_  
W001  
SAMPLING PERIOD: START 1410 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.29</u>	<u>          </u>
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>329</u>	<u>          </u>
REDOX POTENTIAL	Eh	mvolts	<u>          </u>	<u>          </u>
TEMPERATURE	TEMP	°C	<u>34.3</u>	<u>          </u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	<u>          </u>	<u>          </u>

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

WATER ANALYSIS			DATE	
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	μmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

INSTALLATION ID SLERP LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 508-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
W021  
SAMPLING PERIOD: START 1355 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	$\mu\text{mhos/cm}$
Eh	mvolts
TEMP	$^{\circ}\text{C}$
ALK	mg/l

8.17

53c

17.1

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	$\mu\text{mhos/cm}$
EH	mvolts
TEMP	$^{\circ}\text{C}$
ALK	mg/l

DETECTION  
LIMIT

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8/8/88 LOG TIME \_\_\_\_\_  
LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N.D.S SAMPLE ID 509-W021 SAMPLE DEPTH (FT.) \_\_\_\_\_  
W001 W020 W601  
W101 W501  
SAMPLING PERIOD: START 1330 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.05</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>522</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>16.2</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

DETECTION  
LIMIT

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	$\text{mg/l}$	_____	_____

SAMPLE TYPES: (WSACODE)

**SAMPLE METHODS: (WSMCODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAITER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 510-0001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
0021  
SAMPLING PERIOD: START 1435 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

BP - BLADDER PUMP

## SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 511-0001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
0021  
SAMPLING PERIOD: START 1445 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

J-177

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 04- LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 512-W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
W021  
SAMPLING PERIOD: START 1455 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.25	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	89 + 791	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	19.5	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 813 - 0001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
0021  
SAMPLING PERIOD: START 1420 COMPLETE \_\_\_\_\_  
SAMPLING METHOD B LOGGER CODE AFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	$\mu\text{mhos/cm}$
Eh	mvolts
TEMP	$^{\circ}\text{C}$
ALK	mg/l

7.88

~~7.88~~

19.9

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	$\mu\text{mhos/cm}$
Eh	mvolts
TEMP	$^{\circ}\text{C}$
ALK	mg/l

DETECTION  
LIMIT

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 514-0021 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1205 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.88</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>3120</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>21.4</u>	_____
ALKALINTY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINTY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 05- LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID SD-4031 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS dry

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADOER PUMP
SL - SUCTION LIFT PUMP	

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID S/FRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE PI SAMPLE ID 54-021 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1140 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD 6 LOGGER CODE RFLW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.94</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>521</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>24.6</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLEKD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 517-0021 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1200 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.94</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>297</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>22.2</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID SR-W021 SAMPLE DEPTH (FT.) \_\_\_\_\_  
1150 W21 W521  
7.95-554 W22 W221  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFU  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

7.99

5.02

\_\_\_\_\_

25.4

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

J-184

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 59-W021 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1520 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.20</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>1054</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>20.2</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE  
 R - REPLICATE  
 S - SPIKE  
 K - KNOWN

FB - FIELD BLANK  
 TB - TRIP BLANK  
 LB - LAB BLANK  
 N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB  
 B - BAILER  
 PP - PERISTALTIC PUMP  
 SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
 AL - AIR-LIFT SAMPLER  
 BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SFLRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 520-1021 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1500 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.30</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>570</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>23.4</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 52- W001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
W021 W021 W021  
W021 W021  
SAMPLING PERIOD: START 1110 COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.68</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>11.70</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>24.8</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN	pH	S.U.		
SPECIFIC CONDUCTANCE	SC	µmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 522 Wool SAMPLE DEPTH (FT.) \_\_\_\_\_  
WOL  
SAMPLING PERIOD: START 1250 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_  
\_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.56</u>	<u>          </u>
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>845</u>	<u>          </u>
REDOX POTENTIAL	Eh	mvolts	<u>          </u>	<u>          </u>
TEMPERATURE	TEMP	°C	<u>27.5</u>	<u>          </u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	<u>          </u>	<u>          </u>

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_  
\_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	°C	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____

**SAMPLE TYPES: (WSACODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 523-0001 SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START 1120 W101 W501 W201  
SAMPLING METHOD G W301 W601 COMPLETE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ LOGGER CODE RFID \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_ DATE SENT \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

			UNIT
POTENTIAL OF HYDROGEN	pH	S.U.	8.20
SPECIFIC CONDUCTANCE	SC	µmhos/cm	855
REDOX POTENTIAL	EH	mvolts	
TEMPERATURE	TEMP	°C	19.3
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

	PH	S.U.		LIMIT
POTENTIAL OF HYDROGEN				
SPECIFIC CONDUCTANCE	SC	μmhos/cm		
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C		
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

**SAMPLE TYPES: (WSACODE)**

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 524-4021 SAMPLE DEPTH (FT.) \_\_\_\_\_  
W001  
SAMPLING PERIOD: START 1100 COMPLETE \_\_\_\_\_  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

				LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.83</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>178</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>24.2</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

				LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	μmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

J-190

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 501-4022 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Dry

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 01 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 503-0022 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Ery

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-8-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 01-505 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 505-4021 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1350 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.13</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>478</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>18.2</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB              SP - SUBMERSIBLE PUMP  
 B - BAILER            AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 506-11002 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1440 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Cry

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.45</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>449</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>17.6</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1430  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 507-W002 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1445 COMPLETE 1450  
 SAMPLING METHOD G LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.67</u> <u>7.87</u>
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>249</u>
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	<u>35.7</u>
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1435  
 LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 508-6002 SAMPLE DEPTH (FT.) 8.50

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD G LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.45</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>449</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>17.9</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME 1440  
LOCATION ID 02 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N, D, MS SAMPLE ID 509-W002 SAMPLE DEPTH (FT.) 14.65  
W102 W502  
W102 W602  
SAMPLING PERIOD: START 1445 COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	µmhos/cm
Eh	mvolts
TEMP	°C
ALK	mg/l

$$\begin{array}{r} 7.53 \\ - 4.85 \\ \hline 18.4 \end{array}$$

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

POTENTIAL OF HYDROGEN  
SPECIFIC CONDUCTANCE  
REDOX POTENTIAL  
TEMPERATURE  
ALKALINITY ( $\text{CaCO}_3$ )

pH	S.U.
SC	μmhos/cm
Eh	mvolts
TEMP	°C
ALK	mg/l

DETECTION LIMIT	
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1600  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 410-W002 SAMPLE DEPTH (FT.) 4.64  
 SAMPLING PERIOD: START 1600 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.60</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>657</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>21.3</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADOER PUMP
SL - SUCTION LIFT PUMP	

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1610  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 511-W002 SAMPLE DEPTH (FT.) 6.64  
 SAMPLING PERIOD: START 1610 COMPLETE 1614  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE AFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.9</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>542</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>20.5</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLARD LOG DATE 8-3-88 LOG TIME 1620  
 LOCATION ID C4 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE A SAMPLE ID 512-4007 SAMPLE DEPTH (FT.) 7075

SAMPLING PERIOD: START 1620 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE AFU  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.03</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>540</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>19.8</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME 1540  
 LOCATION ID 04 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 83-10002 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1540 COMPLETE 1547  
 SAMPLING METHOD 6 LOGGER CODE KF11  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.54</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>544</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>20.5</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1710  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 514-W022 SAMPLE DEPTH (FT.) 4.65

SAMPLING PERIOD: START 1710 COMPLETE 1715  
 SAMPLING METHOD 6 LOGGER CODE RFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.54</u>
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>2960</u>
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}$ C	<u>22.9</u>
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____
REDOX POTENTIAL	Eh	mvolts	_____
TEMPERATURE	TEMP	$^{\circ}$ C	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB      SP - SUBMERSIBLE PUMP  
 B - BAILER    AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1720  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N, DISC SAMPLE ID 515-14022 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1720 COMPLETE 1730  
 SAMPLING METHOD G LOGGER CODE BFW  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Dry

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

## SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

## SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	



INSTALLATION ID SLFAD LOG DATE 8-3-88 LOG TIME 1800  
LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 516-W002 SAMPLE DEPTH (FT.) 10.1  
W102 W502  
W202 W602  
SAMPLING PERIOD: START 1800 COMPLETE 1405  
SAMPLING METHOD G LOGGER CODE RFW  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

BP - BLADOER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1730  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 512-W022 SAMPLE DEPTH (FT.) 8.77

SAMPLING PERIOD: START 1735 COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE REU  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.48</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>349</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>27.5</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE FB - FIELD BLANK  
 R - REPLICATE TB - TRIP BLANK  
 S - SPIKE LB - LAB BLANK  
 K - KNOWN N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB SP - SUBMERSIBLE PUMP  
 B - BAILER AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLERD LOG DATE 8-3-88 LOG TIME 1750  
 LOCATION ID 05 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE H SAMPLE ID 578-W022 SAMPLE DEPTH (FT.) 10.97

SAMPLING PERIOD: START 1745 COMPLETE 1750  
 SAMPLING METHOD G LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.46</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	<u>313</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	<u>25.6</u>	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE	FB - FIELD BLANK
R - REPLICATE	TB - TRIP BLANK
S - SPIKE	LB - LAB BLANK
K - KNOWN	N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB	SP - SUBMERSIBLE PUMP
B - BAILER	AL - AIR-LIFT SAMPLER
PP - PERISTALTIC PUMP	BP - BLADDER PUMP
SL - SUCTION LIFT PUMP	

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1935  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 519-W022 SAMPLE DEPTH (FT.) 6.78

SAMPLING PERIOD: START 1935 COMPLETE 1940  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.91</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>784</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>19.7</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID SLFRD LOG DATE 8-6-88 LOG TIME \_\_\_\_\_  
 LOCATION ID 06 LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE N SAMPLE ID 519-W022 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS Original sample was broken during shipping

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>8.07</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>683</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>24.1</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE    FB - FIELD BLANK  
 R - REPLICATE    TB - TRIP BLANK  
 S - SPIKE        LB - LAB BLANK  
 K - KNOWN        N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                    SP - SUBMERSIBLE PUMP  
 B - BAILER                AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP    BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 2000  
 LOCATION ID CG LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE A SAMPLE ID 520-W002 SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START 1955 COMPLETE 2000  
 SAMPLING METHOD G LOGGER CODE HFV  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.85</u>	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>430</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>20.5</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	µmhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
 R - REPLICATE      TB - TRIP BLANK  
 S - SPIKE          LB - LAB BLANK  
 K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
 B - BAILER                  AL - AIR-LIFT SAMPLER  
 PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
 SL - SUCTION LIFT PUMP

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1915  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 521-1022 SAMPLE DEPTH (FT.) \_\_\_\_\_  
WOOD  
SAMPLING PERIOD: START 1900 COMPLETE 1905  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.67</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>769</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>29.3</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

PARAMETER MEASUREMENTS:			DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	
SPECIFIC CONDUCTANCE	SC	μmhos/cm	
REDOX POTENTIAL	Eh	mvolts	
TEMPERATURE	TEMP	°C	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

G - GRAB  
B - BAILER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP

# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID 2LFRD LOG DATE 8-8-88 LOG TIME 1830  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE N SAMPLE ID 522-W002 SAMPLE DEPTH (FT.) 5.52  
W022  
SAMPLING PERIOD: START 1830 COMPLETE 1835  
SAMPLING METHOD 0 LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN	pH	S.U.	<u>7.18</u>	
SPECIFIC CONDUCTANCE	SC	µmhos/cm	<u>692</u>	
REDOX POTENTIAL	Eh	mvolts		
TEMPERATURE	TEMP	°C	<u>23.6</u>	
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l		

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

**PARAMETER MEASUREMENTS:**

POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu\text{mhos/cm}$	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	$^{\circ}\text{C}$	_____	_____
ALKALINITY ( $\text{CaCO}_3$ )	ALK	mg/l	_____	_____

**SAMPLE TYPES: (WSACODE)**

D -	DUPLICATE	FB -	FIELD BLANK
R -	REPLICATE	TB -	TRIP BLANK
S -	SPIKE	LB -	LAB BLANK
K -	KNOWN	N -	NORMAL

**SAMPLE METHODS: (WSMCODE)**

G - GRAB  
B - BAITER  
PP - PERISTALTIC PUMP  
SL - SUCTION LIFT PUMP  
SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1855  
LOCATION ID 07 LOT CONTROL NO. \_\_\_\_\_  
SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 523-W022 SAMPLE DEPTH (FT.) 1667  
W002 W122 W622  
W222 W522  
SAMPLING PERIOD: START 1855 COMPLETE \_\_\_\_\_  
SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
PRESERVATION METHOD \_\_\_\_\_  
COMMENTS \_\_\_\_\_

DETECTION  
LIMIT

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_  
 LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_  
 SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_  
 SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_  
 SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_  
 LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_  
 PRESERVATION METHOD \_\_\_\_\_  
 COMMENTS \_\_\_\_\_

**DETECTION  
LIMIT**

SP - SUBMERSIBLE PUMP  
AL - AIR-LIFT SAMPLER  
BP - BLADDER PUMP



# SURFACE WATER QUALITY SAMPLING RECORD

INSTALLATION ID SLFRD LOG DATE 8-3-88 LOG TIME 1845

LOCATION ID C7 LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID 524 SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START 1845 COMPLETE 1846

SAMPLING METHOD \_\_\_\_\_ LOGGER CODE RFW

LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	<u>240</u>	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	<u>168</u>	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	<u>25.2</u>	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

INSTALLATION ID \_\_\_\_\_ LOG DATE \_\_\_\_\_ LOG TIME \_\_\_\_\_

LOCATION ID \_\_\_\_\_ LOT CONTROL NO. \_\_\_\_\_

SAMPLE TYPE \_\_\_\_\_ SAMPLE ID \_\_\_\_\_ SAMPLE DEPTH (FT.) \_\_\_\_\_

SAMPLING PERIOD: START \_\_\_\_\_ COMPLETE \_\_\_\_\_

SAMPLING METHOD \_\_\_\_\_ LOGGER CODE \_\_\_\_\_

LAB CODE \_\_\_\_\_ DATE SENT \_\_\_\_\_

PRESERVATION METHOD \_\_\_\_\_

COMMENTS \_\_\_\_\_

## PARAMETER MEASUREMENTS:

				DETECTION LIMIT
POTENTIAL OF HYDROGEN	pH	S.U.	_____	_____
SPECIFIC CONDUCTANCE	SC	$\mu$ mhos/cm	_____	_____
REDOX POTENTIAL	Eh	mvolts	_____	_____
TEMPERATURE	TEMP	°C	_____	_____
ALKALINITY (CaCO <sub>3</sub> )	ALK	mg/l	_____	_____

### SAMPLE TYPES: (WSACODE)

D - DUPLICATE      FB - FIELD BLANK  
R - REPLICATE      TB - TRIP BLANK  
S - SPIKE          LB - LAB BLANK  
K - KNOWN          N - NORMAL

### SAMPLE METHODS: (WSMCODE)

G - GRAB                      SP - SUBMERSIBLE PUMP  
B - BAILER                  AL - AIR-LIFT SAMPLER  
PP - PERISTALTIC PUMP      BP - BLADDER PUMP  
SL - SUCTION LIFT PUMP